Self-Assessments

on Concept (1.3)

Self-Assessment 10 On Lesson 1

1 (A)	Cross out the odd word :	
1.	Grasses – Algae – Sea stars –	- Trees. (
2.	Clam – Zooplankton – Algae –	Sea urchin. (
3.	Sharks – Crocodiles – Snakes	– Hawks. (
(B)	Give a reason for the following	ng:
	All food chains depend on sun	light.
2 (A)) Choose the correct answer :	
1.,	All marine food chains don't ind	clude
	a. algae.	b. zooplankton.
	c. tigers.	d. sharks.
2.	Flooding which may destroy a	desert ecosystem, is due to
i	a. drought condition.	b. decreasing producers.
(c. gentle rain.	d. heavy rain.
	If algae are completely removed negatively affected.	d from a marine ecosystem, will be
	a. clam only	b. zooplankton only
4	c. clam and zooplankton	d. clam, zooplankton and sea urchin
(B)		in, then complete the table below : Sea star ——> Shark
	The living organism	Its type
	1. Algae	W->
	2	Primary consumer.
	3. Sea star	400440011400014
	4. Shark	

Form a food chain on land environment from the following living or (Deer — Shark — Grasses — Lion)	ganisms :	
Self-Assessment 11 till Lesson 2		******
1 (A) Cross out the odd word :		
 Primary consumers – Decomposers – Secondary consumers – Top predators. 	()
2. Fox – Clam – Rabbit – Eagle.	(
3. Seabird – Small fish – Tiger – Microorganisms.	(
(B) Give a reason for the following :	•	
Predators cannot feed directly on plants.		

2 (A) Correct the underlined words :		
1. Energy transfers when a secondary consumer feed on		
a producer.	(,)
2. All nonliving things can make their own food.	()
3. Producers need the energy of moonlight to make photosynthesis		
process.	()
(B) What happens to? The food resources of the seabirds when the seawater becomes of	ooler.	
Study the following food web, then put (🗸) or (X):		
Sheep -		
Grasses		
Deer		
Energy can transfer from the producer to the deer only.	(1
Both sheep and deer are primary consumers.	()
Grasses are considered as producers because they cannot make		,
their own food.	()
4. The lion is considered as a secondary consumer and a top predato	r. ()
-	,	1

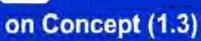
Self-Assessment 12 till Lesson 3

(A) Complete the following sentences using the words below:		
(producers - coral bleaching - plastic)		
1. In, the color of coral reefs turns completely into white.		
Marine living organisms cannot differentiate between real food and		
3. In marine food chains, microorganisms are considered as		
(B) What happens to?		
The coral reefs when the seawater temperature rises.		
2 (A) Correct the underlined words :		
 Plastics are <u>healthy and smooth</u>, so they cause harm to marine living organisms. 		
2. Due to rising of seawater temperature, coral reefs turn completely into g	reen.	
3. Marine living organisms cannot differentiate between water and plastics	š.	
(B) Give a reason for the following:		
It is better to recycle plastic waste materials than throwing them in water	r.	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
3 Choose from the following living organisms to form a food chain in seas	water	:
(Zooplankton – Shark – Algae – Tiger – Corals – parrotfish)		
Self-Assessment 13 till Lesson 4		
11 (A) Put (✓) or (X):		
 Removing plants at riverbanks, negatively impact the environment. 	()
Habitat restoration projects, include repairing all natural resources of an ecosystem.	()
Riverbanks eroding may occur due to removing primary consumers awareness are ecosystem.	ay	
from an ecosystem.	(

A) Choose from col	umn (B) what suits it in column (A):	
(A)	(B)	
1. Corals	a. depend on grasses to get energy.	
2. Seabirds	b. depend on deers to get energy.	
	c. depend on microorganisms indirectly to get energ	JУ.
3. Rabbits	d. depend on algae indirectly to get energy.	
1,	2,	
B) Give a reason fo	r the following : at riverbanks harms an ecosystem in many different wa	VS.
Kemoving plants		
Correct the underlin		

hospital.

Model Exam 1





1	(A) Choose the correct answer:	5 mai	rks)
	1. All the following factors pollute the water, except		
	a. plastic garbage. b. sunlight.		
	c. animals wastes. d. humans wastes.		
	2. In a food chain, the energy transfers		
	a. from a consumer to a producer. b. from a predator to a producer.		
	c. from a predator to a prey. d. from a prey to a predator.		
	3. Seabirds build their nests		
	a. on the water surface. b. deep down into the sea.		
	c. on the top of mountain cliffs. d. deep down into the river.		
	4. As a result of coral reefs bleaching, corals will		
	a. increase. b. enlarge. c. survive. d. die.		
	(B) What happens if?		
	The number of secondary consumers in an ecosystem decreases.		
	**************************************	******	*****
	***************************************		*****
2	(A) Put (V) or (X):	5 ma	rks)
	1. People can recycle plastic products instead of throwing them in the sea.	()
	2. Microorganisms that live in water increase when the water becomes warmer	. ()
	3. Some marine organisms depend on coral reefs for food and shelter.	()
	4. Tigers are considered as top predators in marine food chains.	()
	(B) Give a reason for the following:		
	Coral bleaching happens when the water temperature rises.		

3	(A) Write the scientific term of each of the following:	(5 marks)
	 It is an area in the sea, where scientists take care of small pieces of coral until they grow up. 	(.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	2. Small pieces of plastics in the size of rice grains and they cause	
	harms to the coral reefs.	()
	3. It is the number of organisms of one type of species living in an area.	()
	4. It is harm that happens to the water due to human activity.	()
	(B) Correct the underlined words:	
	1. Due to rising of water temperature, coral reefs turn completely into	
	green.	()
	2. If the number of secondary consumers increases, the amount of	
	producers in this ecosystem will decrease.	()

Model Exam 2



on Concept (1.3)

1	(A) Put (V) or (X):		(5 mar	ks)
	1. If the climate change is suitable, the	he population of a specie	s will decrease. ()
	2. Corals can make their own food b	y photosynthesis process	. ()
	 Overfishing is a human activity the ecosystem. 	at can change the habitat	in a marine ()
	 It is better to keep natural resource projects on them. 	es healthy instead of app	ying restoration ()
	(B) Give a reason for the following			
	Change in the population of one s species.	species affects the popula	tion of other	
2	(A) Choose the correct answer:		(5 mar	ks)
	If clams are completely removed f may be affected.	rom a marine ecosystem,	the survival of	
	a. sharks	b. sea urchin		
	c. tiggerfish	d. sea stars		
	2. Habitat restoration projects allow s	scientists to that occ	cur to an ecosyster	n.
	a. increase harms	b. decrease harms		
	c. keep harms	d. increase damages		
	3. Any increase or decrease in the n known as	umber of organisms of or	e type of species i	S
	a. a climate change.	b. an ecosystem.		
	c. a population change.	d. adaptation.		
	4. When there is a gentle rain in a de	sert ecosystem, this ecosy	stem may be	
	a. harmed. b. improved.	c. destroyed. d. not	changed.	

(B)	What happens to?	
	The coral reefs when the seawater temperature rises.	
3	(A) Complete the following sentences using these words:	(5 marks)
	(microorganisms – small fish – preys – primary consumer	s)
	1. Producers in the marine food chains, are	
	2. Small fish are considered as, when they eat the producers.	
	3. Seabirds feed on to get energy.	
	4. Predators of living organisms may be for other living organisms	
	(B) Cross out the odd word :	
	1. Tiger - Rabbit - Shark - Crocodile. ()
	2. Insects – Trees – Algae – Grasses.)

Self-Assessments

on Concept (2.1)

Self-Assessment 14 On Lesson 1

	0011710	occombine (14 Cir	20000111		
1 (A) Correct the underline	ed words :			
1	. Sand is an example of	liquid matter.		()
2	. Ice is water in the gas	state.		()
3	. Water vapor is conside	red as an example of solid	matter.	()
(B) What happens to?				
	The state of water whe	n it is heated to a very high	h temperature.		
2 (A) Put (🗸) or (X) :				
1	. A mass of matter is the	space occupied by this m	atter.	()
2	. Any matter consists of	tiny things that we cannot	see with our eyes	. ()
3	. A matter has two states	S.		()
1	B) Give a reason for the	following			
(Milk – Carbon dioxide -	ords into solids, liquids an - Sugar – Stone – Blood	_		
Γ	Water vapor) Solids	Liquids	Gases		

			***************************************	.,	
Ľ	Self-As	sessment (15 till	Lesson 2	*****	
			20000112		
	A) Cross out the odd wo				
	. Air – Oxygen – Glass –			()
	. Wood – Plastic – Glass			()
3	. Oil – Milk – Water – Co	n.		()

(B) Give a reason for the following:	
Gasoline is a liquid matter.	
(A) Correct the underlined words :	
1. Particles of solid matter have a lot of spaces.	(
2. Matter is anything that has color and volume.	(
3. We can measure the mass of some matter using thermometer.	(
(B) What happens to?	
The shape of ice if it changes into water.	
Arrange the following pictures that show the three states of water a	ccording to :
(A) (B) (C)	
1. Spaces between particles (Ascendingly).	

2. Energy of particles (Descendingly).	

Self-Assessment 16 till Lesson 3	
Sen-Assessment 10 till Lesson 5	
(A) Correct the underlined words :	
1. A matter consists of tiny states.	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
2. To see some particles of a matter, we have to use a measuring tape	. (
3. Particles of liquids are packed tightly.	(
(B) Give a reason for the following:	
Normal microscope was invented.	

Compilere	the following sentences:	
articles of f their cont		ach other, so they take the shape
articles of .	matter can move very qui	ckly in all directions.
oth shape	and volume of a coin is	as it is a solid substance.
What happ	ens to?	
	s of air inside the balloon when yo	ni sanaaza it
ne particle	or an interest the bolloom trifell ye	
ne particle	or an increasing balloon triciny	,
ne particle		
· · · · · · · · · · · · · · · · · · ·	olumns (B) & (C) what suit them	, , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , ,
· · · · · · · · · · · · · · · · · · ·		, , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , ,
ose from c	olumns (B) & (C) what suit them	in column (A) :
ose from o	olumns (B) & (C) what suit them (B) a. has no definite shape or	in column (A) :
ose from c (A) 1. Glass	olumns (B) & (C) what suit them (B) a. has no definite shape or volume. b. has no definite volume and	in column (A) : (C) A. Its particles have no energy

Self-Assessment 17 till Lesson 4

11 (/	A) Put	(V)	or	(X)	1
-------	--------	-----	----	-----	---

 Models can help us see things that are too small or too big to observe. 	()
2. A group of students standing very closely together in a small area, this group	oup	
may represent a model of a gas matter.	()

3. The mass of an iron cube is the amount of space that it takes up.

(B) Give a reason for the following:

A golden ring is considered a matter.

			ELF-ASSESSME	NT
(A) Correct	the underlined words:			
	of liquids are arranged in a	regular pattern.	(.	.)
	form of matter.		()
	is a copy that is different from	n a real thing.	(
	appens if?	_		
	placed in some containers th	nat have different shapes		
11010110	pidood iir oomo oomo			
				_
Classify the	following materials accord	ling to the arrangement of p	articles int	0
regular pat	tern or random arrangemen	t in the table below:		
(v	vood – water – plastic – ox	ygen – oil – carbon dioxide	•)	
	Regular pattern	Random arrangement		
-		***************************************	******	
1411**	***************************************	***************************************		
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				

	Self-Assessment	18 till Lesson 5		
	"Sell-Assessment	10 till Lesson o		
(A) Put (V)	or (X) :			
	or (X): a matter as it has mass and	volume.	(
1. A rock is 2. Models a	a matter as it has mass and are designed to let things be	studied more hard.	(
1. A rock is 2. Models a	a matter as it has mass and	studied more hard.	(
 A rock is Models a Particles 	a matter as it has mass and are designed to let things be	studied more hard.	((
 A rock is Models a Particles Give a 	a matter as it has mass and are designed to let things be of a ruler are packed very c	studied more hard. lose to each other.	((
 A rock is Models a Particles Give a 	a matter as it has mass and are designed to let things be of a ruler are packed very c reason for the following:	studied more hard. lose to each other.		
1. A rock is 2. Models a 3. Particles (B) Give a Water va	a matter as it has mass and are designed to let things be of a ruler are packed very c reason for the following:	studied more hard. lose to each other.		
1. A rock is 2. Models a 3. Particles (B) Give a Water va (A) Correct	a matter as it has mass and are designed to let things be of a ruler are packed very coreason for the following: apor has no definite shape or	studied more hard. lose to each other.	(((

are put in.

3. Particles of gases have a regular pattern.

(..)

(B) What happens to ...?

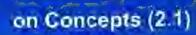
The speed of particles of water when it is heated.

Look at the following picture that shows the water cycle in nature, then complete the following sentences:



- 1. Label (1) refers to a matter in state.
- 2. Label (2) refers to a matter in state.
- 3. Label (3) refers to a matter in state.

Model Exam





	(A) The state of the first constant of the state of the s			
1	(A) Complete the following sentences:	(5)	mari	(s)
	1. Matter is made up of tiny			
	2. Earth is a planet in the system.			
	3. To describe the particles of a matter in state by modeling balls, we have the half-marked together.	ve		
	should put the balls packed together. 4. Particles of matter can slide over each other.			
	(B) Give a reason for the following:			
	Salt is a solid matter.			
			٠	
2	(A) Choose the correct answer :	(5	mari	ks)
	1. All of these substances are liquids, except			
	a. oil. b. milk. c. stone. d. vinegar.			
	2. Gases have shape and volume.			
	a. definite – definite b. no definite – no definite			
	c. definite – no definite d. no definite – definite			
	3. The movement of particles of water are slower than that of			
	a. wood. b. plastic. c. air. d. gold.			
	4. We can use a model to study very large things such as			
	a solar system. b. germs. c. microbes. d. viruses.			
	(B) What happens to?			
	The arrangement of particles of water after its freezing.			
				**
3	(A) Put (✓) or (X):	(5.	mari	ks)
	1. Gasoline takes the shape of its container.	ſ	()
	2. All matter have only one state.	ĺ	()
	3. Particles of water can move more freely than the particles of water vapo	r. 1	()
	4. Particles of an aluminium spoon are similar to particles of a golden ring	ı	()
	(B) Cross out the odd word:			
	1. Coal – Carbon dioxide – Oxygen – Air. (
	2. Oil – Milk – Water – Wood.	hi)

Model Exam 1 on Concept (2.1)



(A) Complete the following sentences:		(5 marks,
1. Iron and gold are examples of	. state of matter.	
Matter that takes the shape of its con- is	tainer, but its volume cann	ot be changed
3. Any matter is made up of tiny .	that we cannot see with	our eyes.
Scientists cannot use the	icroscope to see the comp	onents of one
(B) Give a reason for :		
Oil has different shapes when it is pla shapes.	iced in some containers th	at have different
	, , , , , , , , , , , , , ,	
2 (A) Put (✓) or (X).		(5 marks)
 We can understand things that we can models. 	nnot easily see with our ey	es by using ()
2. Steam of boiling water is considered t	he gas state of water.	()
3. Matter never changes from one form	into another.	()
4. Light and sound are forms of matter.		()
(B) Cross out the odd word:		
1. Oil - Milk - Water - Wood.		()
2. Plastic – Vinegar – Iron – Aluminium.		()
3 (A) Write the scientific term of each of	the following:	(5 marks)
1. The tool used to measure the length of	of a wall.	()
2. The building unit of matter.		(.)
3. A device used to examine objects that	t are too small to be seen	
with the naked eye.		()
4. The state of water after its heating for	high temperatures.	()
(B) Choose from column (B) what suits	it in column (A) :	
(A)	(B)	
1. Carbon dioxide	a. is a solid matter.	
2. Sand	b. is a liquid matter.	
	c. Is a gas matter.	
1	2	

Model Exam 2



on Concept (2.1)

1	(A) Choose the correct answer:		(5 marks,
	1andare examples of	solids.	
	a. Chair – ice	b. Juice – ice	
	c. Ruler – steam	d. Bott e – milk	
	2. The amount of space that a matter	er takes up is called	
	a. volume.	b. mass.	
	c. weight.	d. area.	
	3. One of the substances that doesn	n't take the shape of its container is	
	a. oil.	b. coin.	
	c. gasoline.	d. water.	
	4. Particles of vibrate around	their place.	
	a. glass	b. air	
	c. oxygen	d. water	
	(B) What happens to?		
	The size of a balloon when you b	olow it up.	
		F FR 649 VELDA DDDA 440 444 4 4 AAR RA	
7	(A) Complete the following senten	ces:	(5 marks
	1. Particles of matter are		(o marks
		slide over each other, so they take the	2
	of their containers.	ondo over oden other, eo arey take the	-
	 A model of a germ helps us see it used to magnify tiny objects. 	its shape without using a wh	ich is
	4. When we leave a cup of jucice in state.	freezer, it changes from liquid state in	nta
	(B) Give a reason for:		
	Scientists make models of germs	3.	
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

3	(A) Write the scientific term of each of the following:	(5 marks,
	1. A device used to examine one tiny particle such as a blood cell.	()
	2. A copy that is similar to a real thing which we cannot observe with	our eyes.
		()
	3. The state of water after its freezing.	()
	4. The state of matter that has a lot of spaces between its particles.	()

(B) Choose from column (B) what suits it in column (A):

(A)	(B)
1, Milk	 a. Its particles are packed tightly.
2. Air	b. Its particles have medium energy.c. Its particles move very freely.

Unit 1 Concept 3

Changes in Food Webs

The energy in an ecosystem remains as it is

- *Some of the energy that sfer among I ving organisms when they feed on each other.
- Most of the energy are recycled back to the ecosystem by decomposers.

In any ecosystems

if producers disappear,

- Pr mary consumers will ale quickly. Secondary consumers will migrate or die.
- If the number of one species of organisms increases too much,
- The food resources will run out.

If there are many top predators in the food web.

The number of other consumers will decrease.

In the desert ecosystem:

Gentle	O makes
Genne	Hann
	a a mary - r

- Rainwater helps producers grow.
- Consumers will feed on producers.
- Heavy rain leads to floods. Heavy Rain
 - which destroy the ecosystem.
 - Producers will die.
 - *Consumers will migrate or die.
- The desert ecosustem might be improved.
- The desert ecosystem might be harmed.
- The desert ecosystem might collapse

Drought

- Overfishing A numan activity that leads to a decrease in the number of fish.
 - A numan activity in which numans throw waste materials in the water

Water Pollution

 Pollution, t's the harm that happens to air, water, or soil by substances that narm living organisms.

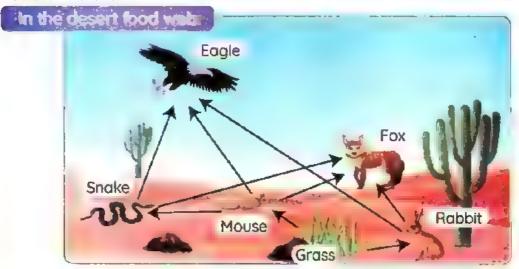
How can Palau Island protect the marine environment?

- Palau manages land activities to control the quality of the marine environment
- Palau prevents fishers from overfishing in coral reef regions.

-a Final Revision



- A ... are producers that produce their own food.
- 7 or 18 s, land, and sea archins are primary consumers.
- The feeds on the clam and is eaten by sharks.
- . The parrotfish feeds on sea urchins or cora s.
- Butterflyfish and triggerish feed on cord s.
- The is a top predator that eats butterflyfish, parrotfish, triggerfish and sea stars.



- is the producer that produces their own food.
- Rank ... and the are primary consumers that feed on producers.
- · Hawks and foxes are top predators.

Effect of Climate on Population

The climate changes affect the population of a species, as follows:

- If they were suitable, the population of species would acrease.
- 2 If they were unsuitable, the population of species would decrease because organisms may die or migrate.

Population

it is the number of organisms of one type of species in an area.

Population change

It is the increase or aecrease in the number of one species in any area.

Example 1



1 Microarganisms:

- Microorganisms are the producers because they can make their own food.
- They are found in cold water habitats because they need cold water to survive.

2 Small fish

 Small fish are primary consumers that feed on microorganisms floating on the water surface.

3

- Seabirds build their nests on the top of mountain cliffs.
- Seabirds dive down the sea to feed on the small fish.

What will happen if water becomes warm?

wil move towards cooler areas, will also move to new habitats.

will have no food, so some may find new habitats, while the others may aie.



· Final Revision

Example 2

- Coral reefs are from the most diverse and valuable ecosystems on Earth.
- Importance of coral reefs:
 - Coral reefs provide food and shelter for many marine organisms.
 - 2 Coral reefs are also important for tourism.



How does coral bleaching happer

When the water becomes too warm:

- Corais reefs will get rid of the algae living in their tissues.
- 2 This causes the color of the coral reefs to turn completely white
- Bleaching events stress corals, so they do not survive.

Effect of Plastic Pollution

- Plastic is very dangerous because it is not nutritious and could be sharp or toxic.
- Some marine organisms cannot know the difference between real food and plastic, such as whales, turtles, seabirds, and fish.

Examples



Turtles eat a lot of plastics. thinking that they are jellufish.



Corals filter the seawater to get their food, so they ingest microplastics.

Microplastics:

They are small plastic pieces that are even smaller than a grain of rice,

How they are formed:

Plastic products get broken down into smaller pieces by the effect of the Sun.

Habitat restoration It is the process of returning a habitat to its natural state before harm was done. .

Example:

Cora reefs rehabilitation project in Arabian Gulf

- Scientists harvest small parts of coral species.
- Scientists move these small parts to a nursery.
- 3 Healthy coral reefs can then grow and reproduce.
- They're moved back to the reefs where they were aying.

Nurseru

It is an area in the ocean where scientists take care of small pieces of corals until they grow and are moved back to the reefs where they were dying.



A way adopted by coastal communities in Egypt to Zero plastics • decrease plastic pollution by limiting single-use plastic on land. 31

Some ways to reduce plastic pollution:

Using less plastic

Stop throwing plastic into the waterRecycling plastic waste

Unit 2 Concept 1

Matter in the World Around Us

Matter

- Matter is anything that has mass and volume (takes up space).
- Matter can exist in three states: solid, iquid, and gas.
- All matter is made up of tiny, identical moving particles.
- Light, sound, and heat are not matter, but they are forms of energy.

Measuring Tools

Tapé Measure Spring Scale Measuring Cup It is used to measure length. It is used to measure weight volume.

Thermometer Electron Microscope It is used to measure temperature. It is used to see individual particles.

States of Matter

P.O.C	Solids	Liquids	Gases 3
Shape	Defin te (fixed)Keep their shape.	 Indefinite shape Take the shape of the container Can be poured 	 Indefinite shape Fill their container and take its shape.
Volume	Defin te (fixed)	• Definite (fixed)	• Indefinite
Spaces between particles	 Very close Are held together (packed tight y). 	 Have more space Are he d together more loosely. 	 Have a ot of space Are not help together
Energy of particles	• Less energy	More energy	- A lot of energy
Motion of particles	 Move only a little bit. (move around their place) (vibrate) 	 Move more freely. Move faster than solids. Can side over each other. 	 Move very freely. Move very quickly.
Arrangement of particles	 Regular (organized) Packed in a neat, ordered arrangement. 	• Are not well organizea.	 Have random arrangements. Are not well organized at all.

Model It is a copy that is sim lar to the real thing.

Importance of models

Models are a great way to see many things at the right size (not the real size)

Models represent very big things in a smaller size, such as:

Models represent very tiny things in a bigger size, such as:

Globe model

• t is a model of Earth (whole word)

Solar sustem model

To compare planets.

Germs model

· To see the shapes of germs.

 To see different parts that help germs spread from a person to another.

Models can help us understand how things work.

Volcano model

It is a model of a volcano that shows how ooze liquid comes out during an eruption.

Unit: 1 Concept 3

Pollution	It's the harms that happen to air, water, or soil by substances that harm living organisms.		
Population	It is the number of organisms of one type of species living in an area.		
Population change	It is the increase or decrease in the number of one species in an area.		
Top predators	They are consumers that exist at the top of food chains.		
Microorganisms	They are producers in the marine food web.		
Coral reefs	They are the most diverse and valuable ecosystems on Earth.		
Coral bleaching	It happens when the temperature of water rises, and the color of coral reefs turns to white.		
Microplastics	They're small pieces of plastic (smaller than a grain of rice) that are formed due to the effect of the Sun.		
Habitat restoration	It is the process of returning a habitat to its natural state before any harm was done.		
Nursery	It's an area in the ocean, where scientists take care of small pieces of corals until they grow up and can be moved back to the reefs where they were dying.		
Zero plastics	It is a new way of life adopted in Egypt, in coastal communication near coral reefs by limiting single-use plastic on land.		

Unit 2 Concept 1

Matter.	It is anything that has mass and takes up space.
Solid	It is a state of matter that has a definite volume and shape.
Liquid	It is a state of matter that has a definite volume, but it doesn't have a definite shape.
Gas	It is a state of matter that has no definite volume or shape.
Modei	It is a copy that is similar to the real thing.
Globe	It is a model that shows us the shape of Earth.
Solar system model	It is a model that helps us see all planets and compare between them.
Volcano model	It is a model that shows us the shape of a volcano.

Give Reasons For...

Unit 1 Concept 3

- A healthy habitat is very important for all living organisms.
 - Because it provides organisms with food, water and shelter.
- (1) 2 Gentle rains benefit the desert ecosystem.
 - Because gentle rains help producers to grow, so the desert ecosystem is improved.
 - Heavy rains harm the ecosystem.
 - Because heavy rains lead to floods, so the desert ecosystem is harmed.
 - 4 Microplastics have a bad effect on corals.
 - Corals filter the seawater to get food; so they ingest microplastics, which are toxic.
- 5 Plastics are so harmful for marine ecosystems.
 - Because plastics are toxic, sharp and not nutritious.
 - 6 The nursery plays important roles in the recovery of coral reefs.
 - Because in a nursery, the small pieces of corals can grow healthy and reproduce.
 - 7 Coral reefs are important for marine organisms and humans.
 - Coral reefs provide food and shelter for marine organisms.
 - Coral reefs are important for tourism (fishing or diving).

Unit 2 Concept 1

- Air is matter.
 - Because air has mass and takes up space.
- 2 Wood is a solid matter.
 - Because wood has a definite shape and volume.
- (1) 3 Oil is a liquid matter.
 - Because it has a definite volume, but no definite shape.
- 4 Steam is a gaseous matter.
 - Because it has no definite shape or volume.
 - 5 Wood has a definite shape and volume.
 - Because wood is a solid matter; its particles are very close to each other (packed tightly), and they move only a little bit.
 - 6 Air has no definite shape or volume.
 - Because the particles inside air have a lot of space between them and they move very freely.
 - 7 A wooden cube keeps its shape when we change its position.
 - Because its particles are very close to each other (packed tightly and held together).
- Milk takes the shape of the container.
 - Because milk is a liquid that has no definite shape.
 - Gases can escape into space.
 - Because gas has no definite shape or volume and its particles are not held together; they move very quickly.
- When you blow a balloon, the air takes its shape.
 - Because air is a gas that has no definite shape or volume.
- A chef put vegetables in a freezer.
 - To freeze them and to keep them fresh for a longer time.
- Models have an important role in learning.
 - Because models help us see things in the right size and help us know how things work.

Unit 1 Concept 3

- The small lakes are exposed to extreme hot climate?
 - The water in the lake will evaporate and the lake may completely disappear.
- There are many top predators in a food web?
 - Ecosystems get harmed because predators will eat all the prey.
- Gentle rains fall on the desert?
 - Grass will grow healthy and the ecosystem is improved.
 - Heavy rains fall on the desert?
 - · Grass will die and the ecosystem is harmed.
 - 5 The grass is removed from an ecosystem?
 - Primary consumers that feed on plants will die quickly.
 - The number of one species increases a lot (concerning the food resources)?
 - Food resources will disappear and consumers will not find enough food, so they will die.
 - The number of secondary consumers decreases in an ecosystem?
 - The number of primary consumers increases.
- When the temperature of water containing microorganisms increases?
 - Microorganisms will move away to cooler water.
- The water temperature rises (concerning the coral reefs)?
 - Coral bleaching happens and the coral reefs color turns to white.
 - The amount of plastics in water increases?
 - Marine organisms will be harmed because plastic is toxic and sharp
 - II You add a road in the forest for moving cars?
 - It causes habitat loss for some living organisms.

Unit 2 Concept 1

- 1 Ice cubes are exposed to extreme heat?
 - The ice will melt (changes from the solid state to the liquid state).
- 2 The water is boiling for a long time?
 - Water will evaporate (changes from the liquid state to the gaseous state).
- 3. You leave a cup of milk in the freezer?
 - It changes from the liquid state into the solid state.
- 4 Water is poured into a cup?
 - Water will take the shape of the cup.
 - 5 A liquid changes into a gas (considering the speed of the particles)?
 - The speed of the particles increases.
- We put the same amount of water in three different containers?
 - The shape of water changes according to the shape of each container.
- 7 Water changes into ice (according to the particles)?
 - The particles move slower and get closer to each other.
 - The particles of an ice is exposed to the Sun (according to the speed of the particles)?
 - The particles move faster and move away from each other.
 - 9 You blow a balloon up (according to its size)?
 - The size of the balloon increases.

Revision

Concept 1.3 Chances in Food Webs

The proc	ess that hap	pens to all	dead organisms is k	nown as
a. respire	ation	,5	b. photosynthesis	5 ,
c. digest	ion	* /	d. decomposition	٦
2 All the fo	llowing organ	nsms are a	considered producers	s, except
a. hawks	ş	1	b. aigae	
c. green	plants		d. marine micro	organisms
3 All the fo	llowing destr	oy the eco	system, except	estable est.
a. gentle	rain .		b. heavy rain	
c. droug	ht	·	d. po lution	
4. If the gro	ass is remove	d from an	ecosystem, \	will die first.
a. produ	icers		b. primary consu	ımers
c. secon	dary consum	ners	d. decomposers	
5 Energy	could be recy	cled back	into the ecosystem b	y the
a. predo	itors		. b. prey	
c. consu	imers	J ,	d. decomposers	
6 Corals g	et harmed w	hen	rent %	
a. water	becomes to	o warm	b. they ingest mi	icrop astics
c. fish to	ake them as s	shelter .	d. a and b	
7. The food	d chain descr	ibes the pr	rocess by which	are transferre
amona	living organis	ims in an e	cosystem.	

If the climate is suitable, the population of a species will

b. decomposers

b. become zero

d. energies

d. increase

66) Science Prim. 5 - First Term

a. consumers

c. producers

c. decrease

a. remain constant

9	Which of the following human activ	vities harm marine ecosystems?
	a. Overfishing	b. Throwing wastes in water
	c. Climate change	d. Al the previous answers
10	All the following examples repres	ent human bad activities, except
	Bernian in themse are 4	
	a. overfishing	b. pollution
	c. floods	d. cutting trees
13.	are considered top predate	ors.
	a. Tigers	b. Rabbits
	c. Frogs	d. a and c
12	Algae in cora reefs provide food fo	or directly.
	a. pr mary consumers	b. secondary consumers
	c. producers	d. top predators
13	In any food chain, the symbol (represents the transfer of
	a. pollution :	b. force
	c. energy	d. motion
14	As the result of pollution in an	ecosystem, the number of living
	organisms	
	a. decreoses	b. increases
٠	c. doesn't change	· d. is doubled
15	live on the top of mountain	cliffs and feed on small fish.
	a. Turtles	b . Corals
	c. Algae	d. Seabirds
16	All the following cause habitat loss,	except
	a. adding roads	b. recycling plastic
	c. overfishing	d. throwing waste in water
17	The main source of energy on Eart	h is
	a. the Sun	b. humans
	c. decomposers	d. consumers

Final Revision

2	Complete the	following	sente	nces	using	the wor	ds between
•	the brackets:		1,1	**	100	*	
1	The marine foo	d web star	ts with	_14 - 44 5 - 44 14 14 14 14 14 14 14 14 14 14 14 14		(algae	- parrotfish)

i	The marine food web starts with (algae – parrotfish)
2	Heavy rains may the desert ecosystem. (improve - destroy)
3	Rabbits die quickly when d.sappear(s) from the ecosystem.
	(hawks – grass)
4	Seabirds feed on small fish; they build their nests
	, (in water - on the top of mountain cliffs)
5	have bad effect on the marine life. (Plastics - Coral reefs)
6	Coral reefs the seawater to get their food. (filter - pollute)
ý	When cord! pleaching happens, corals will
	(die – grow healthy)
Ş	The water of a lake during extreme hot climate.
	(increases – decreases)
P	Habitat restoration projects the ecosystem. (benefit - harm)
fO	Pollution harms the ecosystem as the number of I ving organisms
	(decreases - increases)
Ĭ	can make their own food. (Fish - Microorganisms)
12	Gentle rain the desert ecosystem (harms - improves)

Write the scientific term:

1 They are consumers that exist dt the top of food chains.

13 The ____ of water temperature causes the migration of

2 They're living organisms that recycle the energy into the ecosystem.

(increase - decrease)

- 3. They are consumers that feed on secondary consumers.
- 4 It's a group of interconnected food chains.

microorganisms to other habitats.

5 It is an area in the ocean where scientists take care of small pieces of corals until they grow up.

Science Prim. 5 - First Term 69

- 6 They're flying living organisms that build their nests on the top of mountain cliffs and feed on small fish
- 🏂 It is the number of organisms of one type of species living in an area.
- * It's the increase or decrease in the number of species of living organisms in an environment.
- A human activity that affects marine food webs and makes the number of fish decrease.
- 10 They're small pieces of plastics in the size of rice grains.
- iii The process of returning a habitat back to its natura state.
- 12 They're small organisms that live in cold and are considered producers in the marine food web.
- 43 When water temperature rises up, the coral reef turns completely into white.

Put (✓) or (χ):				
The Corals and sea urchins are examples of top predators in the ma	arin	е		
ecosystem.	()		
Seabirds feed on small fish to get energy.	()		
A healthy marine nabitat provides living organisms with food and sl	he te	er.		
	()		
4 People and engineers must be p scientists in restoration ecology.				
The state of the s	()		
When water temperature decreases, coral bleaching happens.	(()		
if coral reefs are destroyed, many marine food chains will be		٥.		
destroyed.	()		
7 Microorgan sms are producers in some marine food chains.	()		
8 Habitat loss may cause extinction of any species of animals.	()		
9 Consumers may migrate if the producers were removed from the	he			
ecosystem.	()		
10 A desert food chain doesn't contain any type of fish	()		

Final Revision

if organisms disappear in the ecosystem, this may lead to	the	
destruction of the ecosystem.	()
Top predators are consumers that exist at the top of food	chains.()
13 Energy transfers from consumers to producers.	()
Heavy rain harms the desert ecosystem.	()
15 Coral reefs are considered producers.	()
Plastic pollution harms the marine environment.	()

Correct the underlined words:

- Using wooden forks and cloth grocery bags increase the plastic pollution.
- Gent e rain causes floods and damages the desert ecosystem
- 3 Plastic is healthy and smooth, so it causes harm to the marine living organisms.
- 4 Human is considered a producer.
- 5 Algae are producers in the desert ecosystems.

Give reasons for:

- A healthy habitat is very important for all living organisms.
- Gentle rains create a nealthy ecosystem.
- 3 Microplastics have bad effects on corals.
- Heavy rains harm the ecosystem.
- .5 Plastics are so harmful for marine ecosustems.
- The nursery plays an important role in the recovery of coral reefs.
- Cora reefs are important for marine organisms and humans

What happens if:

- The water temperatures rises (concerning coral reefs)?
- The temperature of water containing microorganisms increases?
- The number of one species increases a lot (concerning food resources)?
- The small lakes are exposed to extreme hot climate?

The amount of plastics in water rises?
The coral reefs are bleached?
Seawater becomes warm (concerning microarganisms)?
Sunlight falls on the plastic waste in an ocean?
Heavy rains fall on the desert?
The grass is removed from an ecosystem?
Complete the following sentences using the words between
the brackets:
(flooding - extinction - consumers - decomposers)
a. Fungi and pacteria are two types of
b. Habitat loss is one of the main causes of
c. In food chains, energy transfers from producers to
d. Heavy rain causes which destroys the desert ecosystems.
2 (ecosystem - increases - nursery - decreases)
a. When the number of secondary consumers decreases, the number
of primary consumers and the amount of producers
b. An is an aréa that provides food, water, and shelter to all
living organisms that live there.
c. A is the area in the ocean where the small pieces of corals
are nurtured.
(producers - Energy - shelter - primary consumers)
a transfers between animals in a food web to help them do
their activities and survive.
b. Marine microorganisms are
c. Secondary consumers can eat
d. Coral reefs provide marine organisms with

- Final Revision

4 (sea turties – coral reefs – small fish – microorganisms)
a. Seabirds feed on
b. Some marine animals cannot differentiate between food and
plastic, such as
c. The are from the most diverse ecosystems.
d. When water becomes warm, w'll move to cooler water.
(energy – pollution – Seabirds – coral bleaching)
a. When water temperatures rises, happens.
b. Throwing plastic waste into a river causes water
c. When a predator feeds on prey, the predator gets from the
prey.
d dive deep down into the sea to feed on small fish
(Microplastics – cold – Pollution – die – warm)
a. Microorganisms live in water.
b. If the grass was removed from the ecosystem, primary
consumers that feed on plants will
c is the harm that happens to air, soil, and water due to human
bad activities.
d and water harm the coral reefs.
(Sun - floods - Smalı fish - producers - tertiary consumers)
a. Heavy rain in the desert lead to which harm the ecosystem
b feed on microorganisms floating on the surface of the sea.
c. Microorganisms are considered
d. Microp astics are formed when plast c is broken down by the
e: Secondary consumers are considered prey for



Choose from column (A) what suits it in column (B):



Column (A)

- 1 Microorganisms
- Population Change
- 3 Microplastics

Column (B)

- a, means the increase or decrease in the number of one species in any area.
- **b.** are small plastic pieces that are even smaller than a grain of rice.
- c. are producers in the marine food web.

1	R

Column (A)

- 1 Habitat
- 2 Nursery
- 3 Habitat loss

Column (B)

- a. is one of the main causes of extinction.
- b. Is the environment that the living organism lives in.
- c. is an area in the ocean where the small pieces of corals are nurtured.



Column (A)

2

- **Overfishing**
- 2 Gentle rain in the desert
- 3 Heavy rain in the desert

Column (B)

- a. makes the desert ecosystem get better.
- b. leads to floods.
- c. may destroy the marine ecosystem.



Column (A)

- 1" Coral bleaching
- 2 Seabirds
- 3 Microorganisms
- 4 Clams

Column (B)

- a, can make their own food.
- b. means the coral turns into white.
- c. are primary consumers.
- d. dive to search for food.



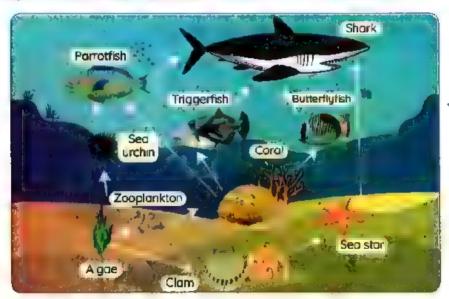






Answer the following questions:

- What are the reasons of losing a habitat?
- Mention one of the human activities that affect the marine environment.
- Form food chains from the following living organisms:
 - a. Rabbit hawk snake green plant
 - b. Parrotfish algae shark coral
 - c. Sea star algae shark clam
 - d. Human grass chicken
 - e. Snake carrot hawk rabbit fungi
 - f. Duck grass fox bacteria
 - g. Gıraffe lion fungi acacia tree
- Study the following figure, then answer the questions:



- a. This figure represents a _____ecosystem.
- b. ____ are considered producers
- c. ____ can feed on seaurchins or corals.
- d, ____ and ___ feed on algae.
- e. ____is the top predator.

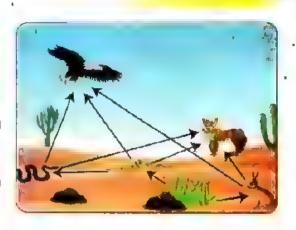
- 5 Study the opposite figure, then answer the questions:
 - a. This figure represent a ...

(food web - food chain)

b. ____ harms this ecosystem.

(Gentle rain - Heavy rain)

c. The _____ is considered a top predator. (mouse – eagle)



- 6 Study the opposite figure, then choose the correct answer.
 - a. This food chain represents
 - a ______, (marine food chain desert food chain)
 - b. are considered
 producers of this ecosystem.
 (Algae Microorganisms)



7 Study the following figure, then answer the questions:



- a. This figure represents
- b. It happens when the temperature of water

Concept 2.1

Morrer in the World Around Us

9 9	Choose the cor	rect answer:		
11	is an exar	nple of gaseous n	natter.	
	a. Öil	b. Air	c. Wood	d. Milk
	The movement o	f particles of wate	r is sower than th	ose of
	a. wood	b. glass	c. plastic	d. oxygen ,
	Which of the follo	wing matter has r	no definite vo ume	e or shapé? '
	a. Ice	b. Water	c. Oil	d. Oxygén ,
40	Ais used	to measure the w	eight of objects.	٠
	a. measuring cup)	b. thermometer	
	c. meter	*	d. spring scale	4
3	How are solids ur	nique from other f	orms of matter?	4
	a. Solids take the	shape of any cor	ntainer.	
	b. Solids have a	definite size and s	hape	
	c. Solids can be	poured.	•	
		ever container the	ey are put in.	
8	All matter is mad			
	a. molecules	- 1	c. cells	d atoms
-27	Matter is			
	a. anything that			
		has mass and tak		
		different states		
8	Ice is an example			
	a. so id	b. gaseous		ଅ. ପ & ୠ
	hàs a de	finite volume and		
	a. Air	b. Ice	c. Water .	d. Wood
10	We can measure	the temperature	using a	
	a. thermometer		b. scale	
Δ	c. meter stick		d. measuring tap	oe i
in all	Martine Orient 5 - First Taren			

11 All the following	examples represe	ent solid states, e x	cept
a.oil ·	b.books .	c.wood	d.rocks
12 Water takes the	of its con	tainer.	
a .volume1	b. mass	c.color	d. shapé
13 Which matter ha	is a defin te sh <mark>ap</mark> e	e and a definite vo	olume?
a. Water	b. lce	c.OII	d. Air
14 Particles of	vibrate around	their places.	
a. oxygen	b _wood	c. water	d.vineğar
15 Al of these subs	t <mark>ances a</mark> re gases,	except	
a water vapor.	b. oxygen	c. air	.d.stone
An example of it	guid is		
a. virtegar	b.rock :	c. pencil	d.oxygen
17 Water can be for	und in a gaseous	state in the form	of .
a. ice	•	b. water vapor	
c oxygen	*	d. frozen water	
18 The matt	er can be poured	in any container.	
a. liquid	b .gaseous	c. solid	d.b and c
19 If ice is transferre	ed from a contain	er to anoth <mark>er, i</mark> ts v	volume
• a. increases	*	b. doesn't chang	ge
c. decreases to i		d.doubles	
20 Scientists use	to see the co	imponents of one	blood cell.
a. regular micros	scopes ,	b . naked eyes	
c.medica g asse	es	d. electron micro	oscopes
Write the scien	tific term:		
lt's the state of w	ater after its free:	zing.	•
2 It's anything that has mass and occupies space			
* It's the state of matter that has a fived shape and valume			

4. It's the state of matter in which the particles vibrate or move around

their places.

o Final Revision

- 5 It's the state of matter that has a definite volume, but no definite shape.
- 6 It's the state of matter that has no definite shape or volume.
- 7 It's the state of water when its temperature is between 0°C and 100°C.
- 8 It's a state of matter that can be poured in a container and takes its shape.
- 9 It's the state of matter that keeps its shape and its particles are packed tightly.
- 10 It's the state of matter in which the particles have a lot of energy and move very freely
- 11 It's a too that is used to measure the ength of a wall or room
- 12 It's a device that is used to measure the weight of an object
- , 13 They are the building units of matter.
- 14 It is a measurement of the amount of matter.
- 15 It's the property of matter which is measured by a measuring cup.
- 16 It's a process in which ice changes into water.
- 17 It's a process in which water changes into ice.
- 18 It is a copy that is similar to the real thing.
- .19 It's a model of the whole world that is made in the shape of a large ball.

Put (√) or (x):

1	When you blow a balloon, the particles of air move very slowly.	(_)
2	Water vapor is the solid state of water	()
3	Particles inside matter are in a continuous motion.	()
4	All states of matter have the same properties.	()
5	In a gaseous state, the particles can keep their shape.	()
6	A liquid has a definite shape and volume.	()
7	Matter can so small that we can't see it, such as germs.		
	•	()
8	Models help us see germs without a microscope	()
9	Particles of gas are packed tightly together.	()
10	Milk takes the snape of the container that it is poured in	()
11	All matter are made up of very large particles.	()

Fing	Re	Vis	ion,	0

Matter has four states.	* ±	()
Models are a great way to see things at the right size.		()
A solar system model tells us about planets; which one is	s the	bigge	est
and which one is the closest to Earth.		()
To measure the height, we use scales.		()
Scientists use regular microscopes to see the component	ts of	one	
blood cell.		()
Particles of gold are different from the particles of iron.		()
Solids can be poured and take the shape of their contain	ier.	()
The particles of ice move faster than the particles of wat	er.	()
Matter can change from one state to another.		Ċ)
Cross out the odd word:			
🗊 Plastic - Iron - Water - Wooa			
2 Water - Milk - Sand - Oil	,		
Sound - Light - Ice			
🎍 Qil – Milk – Wood – Tea			
Air – Water vapor – Ice – Carbon dioxide gas			
Water - Air - Light - Wood			
Give reasons for:			
Colt is most or	,		

- Salt is matter.
- A book has a definite shape and a definite volume.
- Wood is a solid matter.
- Oil is considered a liquid.
- 🕏 Steam is a gaseous state.
- Air has no aefinite shape or volume.
- Solid particles can keep their shape.
- The chef puts vegetables in a freezer or refrigerator.

Final Revision



What happens if:

- ice cubes are exposed to heat (concerning the state and the speed of the particles)?
- water boils for a long time?
- 3 You leave a cup of milk in the freezer?
- Water is poured into a cup of water?
- 5. Liquid changes into gas (concerning the speed of the particles)?

K

Complete the following sentences using the words between the brackets:

10	(Volume – gaseous – solid – Matter)
	a is anything that has mass and takes up space.
	b. Water vapor is an example forstate.
	c. The volume and shape don't change in the matter.
	d is the amount of space that the matter takes.
2	(solar system – gaseous – Earth – solid)
	a. In state, the particles are packed tightly together.
	b. A model shows us all planets.
	c. The particles inside a move very freely.
	d. A globe is a mode of the
Ĵ	(freely - slowly - gaseous - microscopes - measuring tape - Liquid)
	a. The particles of the gaseous state move
	bis a state of matter that can be poured and takes the shape
	of the container.
	c. You can use a to measure the length of a table.
	d. n matter, the particles have a lot of energy.
	e. Scientists use to see tiny part cles.
Á	(definite - Volume - no definite - shape)
	a is the amount of space occupied by matter.
	b. Gas hasvolume.
	c. Water takes the of its container.
	d. Solids have shapes.
	·

5 (Oil – gold – particles – mass – gaseaus) a. Particles of are very close to each other. b is a liquid state of matter. c. The volume and shape change in the state d. Matter consists of very tiny identical, e. Matter s,anything that has and occupies space. Choose from column (A) what suits it in column (B):			
Column (A)	Column (B)		
Gaseous state Liquid state So id state	 a. In which the particles are packed in a neat and ordered arrangement, so that they can keep their shape. b. in which the particles are not held together and move very quickly. c. in which the particles are held together more loosely and take the shape of their container. 		
1 statutatustustustustustustaa 2. aastain jootalajatatatatattija Si majataanpaanjatajatanpaanjat			
Column (A)			
f			
l Oxygen	a. Solid state b. Liquid state		
2 Desk 3 Juice	c. Gas state		
1.			
postulation and orbital strains after under	Personalitation around 3. militaria a p. 10 st. 41.44		
•	* *		
Column (A)	Column (B)		
1 Matter	a. is a copy that is similar to the real thing		
2 Temperature	b. is anything that has mass and takes up space.		
3 Model	c. is one of the properties of matter that is used to measure how hot or cold the matter is		

Final Revision



Column (A)

- 1 Ice
- 2 Water
- 3 Water vapor

(Column (B)

- a, takes the shape of the container, and its particles are not so near.
- b, has a fixed shape, and its particles are very near to each other.
- c, does not have a fixed shape, takes up all the space of the container and the particles are far from each other.









Classify the following:

Oil - Water vapor - Glass - Wood - Nitrogen - Water

Liquid Solid

Answer the following questions:

ia. Which model is the biggest in real?

(Model 1 - Model 2)

- b. A globe represents a model of
- c. The Earth is a planet in the system.





Model (1)

Model (2)

Look at the following figure that represents the particles of milk, air and wood.

e .	موردتور	در در در	
	33333	3333	
7 "	Figure (1)	Figure (2)	Figure (3)

- a. Figure 1 represents the particles of _____.
- b. Figure 2 represents the particles of
- c. Figure 3 represents the particles of

Science Exercises FOR MOVEMBER SYllabUS

d. no correct answer

Concept 2: Energy Flow in Ecosystems Concept 3: Changes in Food Webs

are both primary o	and secondary consumers.
a. Plants	b. Fungi
c. Humans	d. Predators
In any food chain, the primare	y consumers may be
a. predators only	b. prey only
c. predators or prey	d. green plants
Decomposers can get their e	nergy from
a. living things	b. soil and water
c. dead organisms	d. the sun
The relationship between .	is "predator and prey" relationship
a. algae and corals	b. frogs and locusts
c. rabbits and carrots	d. eagles and fungi
The tertiary consumer does	not exist in food chain ()
a. Algae → coral → parrot	tfish> shark
b. Grass → mouse → snak	ke → eagle
c. Grass → locust → frog -	> snake
d. Carrot \longrightarrow rabbit \longrightarrow fox -	→ bacteria
In this food chain (Grass	rabbit —> hawk), if the rabbits
disappear, will increa	ise.
a. grass	b. hawks

a. grass

c. a and b

0	In this food chain (Acacia tree —	→ giraffe → lion),	
	the symbol () represents the flow of		
	a. pollution	b. force	
	c. energy	d. motion	
0	Primary consumers are the	link in their food chain.	
	a. first	b. second	
	c. third	d. final	
0	Healthy desert ecosystems always	ays require from time to	
	time.		
	a. strong winds	b. heavy rain	
	c. gentle rain	d. floods	
10	Which of the following examples	causes the greatest damage to an	
	ecosystem?		
	a. Grass removal	b. Predators extinction	
	c. Predators increase	d. Prey increase	
1	Heavy rain may the d	esert ecosystem.	
	a. improve	b. benefit	
	c. harm	d. restore	
D	If the grass is removed from an e	ecosystem, will die first.	
	a. primary producers	b. primary consumers	
	c. secondary consumers	d. decomposers	
B	When a predator feeds on prej	j, is transferred between	
	them.		
	a. water	b. blood	
	c. motion	d. energy	
1	When the number of predators	increases, the number of	
	decreases.		
	a. producers	b. other predators	
	c. prey	d. decomposers	

1	Human activities and pollution in ecosystem quickly.	impact the marine
		h forante
	a. cities	b. forests
	c. deserts	d. islands
130	All the following examples repre-	esent bad human activities, except
	a. overfishing	b. air pollution
	c. floods	d. plastic pollution
1	Nutrients are recycled back into 1	the ecosystem by the .
	a. predators	b. prey
	c. consumers	d. decomposers
13	In most marine food webs,	are considered producers.
	a. grass	b. algae
	c. bacteria	d. small fish
1	All the following have bad impac	ct on the marine ecosystem, except
	a. island pollution	b. heavy rain
	c. plastic pollution	d. overfishing
20	If the number of primary consur	mers increases so much, will
	disappear.	
	a. producers	b. decomposers
	c. secondary consumers	d. tertiary consumers
W	All the following organisms can m	nake their own food, except
	a. grass	b. worms
	c. algae	d. microorganisms
P	If the climate change was suitable	e, the living organisms will .
	a. die	b. migrate
	c. survive	d. extinct
3	live on the tops of mo	ountain cliffs and depend on fish as
	their main source of food.	
	a. Eagles	b. Hawks
	c. Owls	d. Seabirds

3	are/is considered the producers in the marine food web.		
	a. Small fish	b. Coral reefs	
	c. Marine microorganisms	d. Grass	
3	The migration of microorganism	ns to a new habitat is due to the	
	increase of		
	a. the air temperature	b. the water temperature	
	c. the number of seabirds	c. the number of fish	
26	Increasing water temperature n	nay cause all the following, except	
	a. increasing microorganisms	b. coral bleaching	
	c. migration of fish	d. death of some seabirds	
D	If the turtle sees a plastic piece, the	he turtle will	
	a. avoid it	b. escape quickly	
	c. begin to eat it	d. digest it	
28	is one of the best way	s to protect the marine ecosystem.	
	a. Throwing sewages in seas	b. Using plastics for single use	
	c. Breaking plastics	d. Recycling plastics	
29	Micro-plastics are formed by the	effect of the	
	a. air	b. sun	
	c. water	d. soil	
30	is an area in the ocean	where the small pieces of corals are	
	nurtured.		
	a. Coral reefs	b. The nursery	
	c. Protectorate	d. Garden	
II	is one of the ways dor	ne by coastal communities to reduce	
	plastic pollution.		
	a. Replacing wooden forks with p	plastic ones	
	b. Using grocery plastic bags		
	 Using single-used plastics 	d Using cloth bags	

3	All the following are affected by pollution, except			
	a. living organisms as human, plants and animals			
	b. non-living things as air, water	and soil		
	c. all components of the ecosyst	tem		
	d. dead organisms only			
133	If the number of , the o	grass will increase in the ecosystem.		
	a. decomposers decreases	b. producers increases		
	c. primary consumers increases	d. primary consumers decreases		
30	are the top predators	in their food chain.		
	a. Frogs	b. Birds		
	c. Alligators	d. Butterflies		
35	Decomposers directly benefit fr	om and complete the food		
	chain cycle.			
	a. water and fish	b. air and birds		
	c. dead organisms	d. soil and dead producers		
36	All the following organisms depe	end on another organism to get their		
	energy, except			
	a. predators	b. prey		
	c. green plants	d. b and c		
3	A population change refers to th	e increase or decrease in		
	a. water and food resources	b. number of living organisms		
	c. the weather temperature	d. the water temperature		
	Complete the following using t	the words between the brackets:		
1	of the energy in dead	prey are recycled to the soil.		
		(10% - 90%)		
2	is a natural recycling t	factory.		
		(Photosynthesis - Decomposition)		
1	Corals in the marine food web a	re considered as		
		(consumers – producers)		

is/are considered	d a healthy ecosystem. (C	oral - Coral reefs)
Rabbits die quickly when	disappear from	the ecosystem.
		(hawks - grasses)
water is suitab	ole for microorganisms.	(Cold - Warm)
O Corals the sec	water to get their food.	(absorb - fiter)
Micro-plastics are very h	armful as they are not	
		(toxic - nutritious)
O A long food chain has a		e e
	(produc	cers - consumers)
Gentle rain may	the desert ecosystems.	(benefit - harm)
Habitat loss may	the ecosystems.	(benefit - harm)
water is health	ny for microorganisms.	(Cold - Warm)
Heavy rain may	the desert ecosystems.	
	(ir	nprove - destroy)
4 Habitat restoration may	the ecosystems	
		(benefit - harm)
of the energy	in dead prey are transfe	· ·
		(10% - 90%)
15 Habitat loss for any living		
		extinct - survive)
Decomposers recycle nu		(soil - air)
Coral bleaching means t	he coral color turns to	(rod white)
Alara in the marine food	viola ava campidavad ga	(red - white)
Algae in the marine food		ners - producers)
The amount of rainfall ha		
The arround of fairffair no	as a strong effect of the	ecosystem. (marine - desert)
		(marine desert)

3 Put (√) or (X):

Meavy rain improves the desert ecosystem more than gentle	e rain.	
	()
Energy remains in an ecosystem but it's transferred between	n its	
components.	()
Living organisms always need non-living things in the ecosy	stem	to
survive.	()
O Coral reefs lose their colors when the water temperature de	crease	es.
	()
A primary consumer could be a predator in its food chain.	()
Humans are both primary and secondary consumers.	()
The restoration process always takes a little time.	()
When a plant dies, consumers may not be found in this shore	t food	1
chain.	()
Overfishing is one of the most natural events that impact the	e mari	ine
ecosystem.	()
Algae enter the tissue of corals when the water temperature	<u> </u>	
increases.	()
If the grass is removed from the desert, hawks will die quickl	y. ()
It is better to use single-used plastic forks to reduce plastic p	ollutio	on.
	()
Palau work with fishers to make sure they are not overfishin	g in	
coral reefs.	()
Wheavy rain in the desert causes the growth of more produce	ers.	
	()
The number of prey increases when the number of predator	rs	
decreases.	()
10 Increasing the number of primary consumers may make primary	oduce	ers
disappear.	()

	1	Secondary consumers may migrate if the producers are remaindent	oved	
		from the ecosystem.	()
	13	Microorganisms recycle back the important elements to water.	()
	19	When the water becomes warm, seabirds have to move for a	nothe	er
		cooler area.	()
	20	Habitat loss may cause extinction for any species of living		
		organisms.	()
	A	Using plastic grocery bags is better than using cloth bags.	()
	22	Sea turtles and corals are always in danger due to plastic poll	ution	
			()
6		Write the scientific term for each of the following:		
	1	The first organism to be impacted by the death of the produc	er.	
			.,=	_)
	0	Organisms that return the energy back to the ecosystem.		
				_)
	0	The process of recycling the energy back to the ecosystem.		
				_)
	0	The producers of the marine food web.	**)
	0	A bird that builds its nest on the top cliff and depends on fish	to get	t
		its energy. (y (in de derekte dar te Salvadorde derekte de deleve)
	6	A process in which humans can make new products from was	ste	
		materials. (a almajė (moje 1800) vykistomy ėjų das 18 diligot)
		A phenomenon that happens to living organisms due to habit	at los	SS.
		A)
	U	A phenomenon that causes the coral to turn completely white	h	,
		A human activity that decreases the number of fish in the may	rino	-)
		A human activity that decreases the number of fish in the marea.	nne)
		Rays coming from the sun that cause the formation of microp	Mactic	
	W	rags corning from the son that cause the formation of microp	MUSTIC	.3.



The number of living organisms of one species.	()
Organisms that break down the remains of dead o	organisms.	
	a primarie de la destrucción de la contraction d)
1 It is from the most diverse marine ecosystems on Ea	ırth. ()
Small pieces of plastic that formed due to the UV of	of the sun fall	ing
on it.		
The increase or decrease in the number of living or	rganisms.	
	()
The harm that affects air, water, or soil due to hum	an activities.	
)
1 It is the returning of land and water back to how th	ey were befo	ore
harm was done.	• • • • • • • • • • • • • • • • • • •	
1 It is an area in the ocean where the small pieces of	corals are	
nurtured.	(+) 150 mm 5 t 5 mm 5 b 6 mm 6 mm 6 mm 6 mm 6 mm 6 mm	
A way of life that coastal communities near the rec	efs have adop	oted.
	()
The suitable ecosystem for plant-community ecolo	gists to mak	е
their researches.	***************************************	
Classify the following organisms in this tal	ble:	

Rabbit - Vulture - Hawk - Cockroaches - Bactria -Hyenas - Grass - Crabs - Algae - Houseflies - Alligator -Acacia tree - Slugs - Marine microorganisms -Earthworms - Frog - Human - Millipedes - Deer

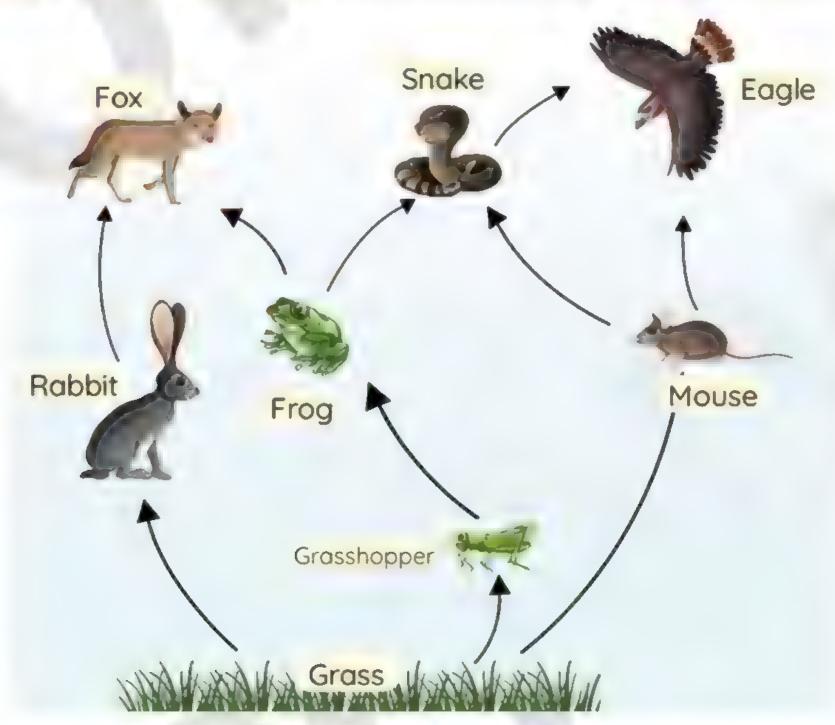
Producer	Consumer	Decomposer	Scavengers
			-

Choose from column (A) what suits it in column (B): Columnia (B) Column (A) 1 Gentle rains a. harm the desert ecosystem. 2 Heavy rains b. reduces ocean pollution. 3 Overfishing c. improve the desert ecosystem. 4 Recycling plastics d. destroys the marine ecosystem. 2 Column (B) Column (A) 1 Photosynthesis a. causes death or extinction of living organisms. 2 Decomposition b. is a way that is used to reduce plastic 3 Restoration pollution. c. means that the coral color turns to white. 4 Zero plastics d. releases oxygen in the air. 5 Habitat loss e. is recovering a shelter to animals. 6 Coral bleaching f. recycles nutrients to the soil. Cross out the odd word: Snails - Houseflies - Slugs - Earthworm Vultures – Crabs – Cockroaches – Fungi Grass - Algae - Bacteria - Marine microorganisms Algae – Rabbits – Whales – Corals Grass - Zooplankton - Fox - Mouse Overfishing – Floods – Microplastics



8 Variant questions:

1 Study the following food web, then answer the questions:



1 From this food web, complete the following to form three food chains:

 $\mathsf{b}. \longrightarrow \longrightarrow \longrightarrow \ldots .$

 $\mathsf{c.} \longrightarrow \longrightarrow \longrightarrow \longrightarrow$

2 Complete the following sentences using the words between the brackets:

a. The number of primary consumers is . . . organisms.

(two - three)

b. The _____ uses the energy of the sun to produce its own food.

(grass - eagle)

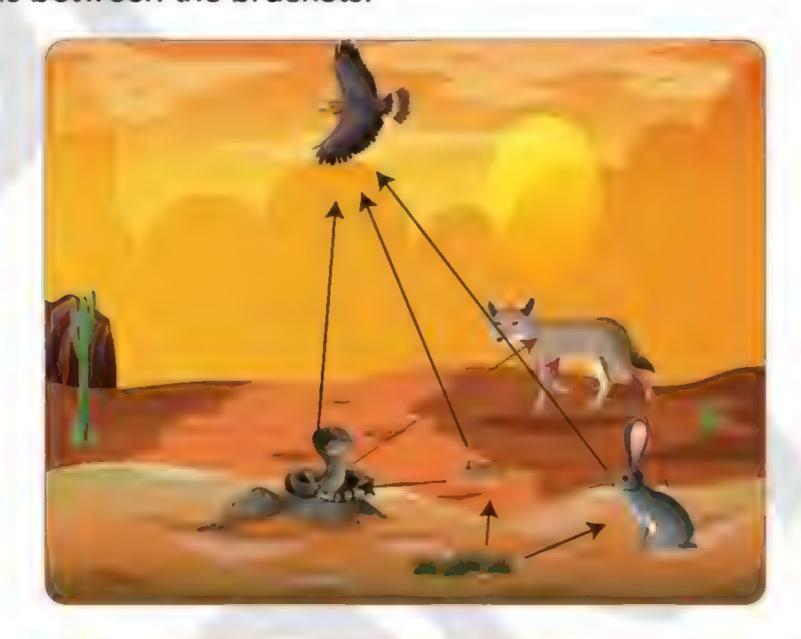
c. The eagle is considered a tertiary consumer when eating the

(mouse - snake)

d. The ____ may be a predator and prey in the same time.

(rabbit - frog)

Study the following food web, then complete the sentences using the words between the brackets:



a. If the population of rabbits increases, may disappear.
 b. The snake is considered a consumer. (primary - secondary)

c. The rabbit provides energy to the . (eagle - grass)

d. If the grass is removed, the mouse and rabbit will

(migrate - die)

Study the following food web, then complete the sentences using the words between the brackets:

(primary - secondary)

a. Letter () represents the producer. (A - E)

A - E)

b. Letter (B) represents the consumer.

† † † F

c. Letter (C) is the tertiary consumer when it feeds on

letter (.....). (B - D)



Study the following figure, then answer the questions:

a. What is the name of this phenomenon?



b. Is this a healthy ecosystem?

c. What is the reason of this phenomenon? ______.

Give reasons for:

- Scavengers play an important role before the decomposition process.
- Decomposition process is a nature's recycling factory.
- Recycling process helps in decreasing pollution.
- Increasing the number of one species of living organisms causes its death.
- Palau Island manages land activities.
- O Gentle rain benefits the desert ecosystem.
- Falling of heavy rain harms the desert ecosystem.
- 1 Microorganisms in water make the same role of grass in the desert.
- 1 The coral reef is the most diverse and valuable ecosystem.
- To Sometimes sea turtles feed on plastic pieces.
- ncreasing water temperature lead to coral bleaching.
- Plastics are so harmful for the marine ecosystem.
- Microplastics have a bad effect on corals.
- Restoration process helps to recover ecosystems.
- The nursery plays an important role in the recovery of coral reefs.

What happens if:

- Decomposers disappear in an ecosystem.
- Increasing the number of secondary consumers.
- Grass disappears from an ecosystem.
- The number of one species increases so much. (Concerning food resources)
- The number of predators increases so much. (Concerning number of prey)
- 6 Gentle rain falls in the desert.
- Heavy rain falls in the desert.
- The water becomes warm. (Concerning corals and microorganisms)
- The climate change becomes unsuitable for living organisms.
- The amount of plastics in water rises.



Concept 4: Matter in the World Around Us

Choose the	correct answer		
1 Which matter	r has a definite shap	pe?	
a. Water	b. Ice	c. Oil	d. Air
O CO	n be poured in any	container.	
a. Oxygen	b. Juice	c. Ice	d. Air
Anything that	t has mass and occ	upies space is	called .
a. energy	b. force	c. matter	d. weight
Any matter e	xists in st	tate(s).	
a. one	b. two	c. three	d. four
All the followi	ng examples repres	sent solid state	es, except
a. juice	b. feather	c. ice	d. rock
6 All matter are	ound us consist of	Ano 19d and 4 to 100 mm bette (19d 15a) of Cilipens at	
a. cells	b. particles	c. nutrients	d. proteins
Matter can be	e described by	drig samakon may drightyr yng yr gan ir 1880 drighwyd dy'r 💮 🚭	
a. hardness	b. color	c. shape	d. all the previous
Which of the	following examples	isn't a matter	?
a. Bird's feath	ners	b. Cup of war	ter
c. Empty cup		d. Bird sound	
js (considered an invisi	ble matter.	
a. Milk	b. Air	c. Father	d. Sound
Ocold milk and	d hot tea are similar	in somether description of the state of the	
a. color	b. temperature	c. taste	d. state
i are	e different matters l	out they exist i	n the same state.
a. Water and	lice	b. Wood and	air
c. Milk and ju	iice	d. Air and wo	iter
D are	e same matters, but	t they exist in t	the different states.
a. Wood and	brick	b. Oxygen ar	nd air
c. Oil and ted		d. Ice and wo	ater vapor

Œ	Tiny particles in	nside	move very free	ely.		
	a. water	b. air	c. wood	d. ice		
C	You can measu	re your height	using a			
	a. balance	b. thermome	ter c. ruler	d. metric sti	ck	
Œ	Thermometer of	can be used to	know the	of water.		
	a. shape	b. color	c. temperat	ure d. weight		
T	Water is descri	bed by all of th	nese properties,	except		
	a. we can pour	· it	b. it occupie	s space		
	c. it has a defin	ite shape	d. it takes the	e shape of the c	ontai	ner
(I	Which of the fo	llowing matter	s has no texture	55		
	a. Feather	b. Oxygen	c. Water	d. Ball		
C	has	a definite size (and an indefinite	e shape.		
	a. Air	b. Ice	c. Water	d. Wood		
C	Some matters	are very smo	all and we can	not see them,	such	as
	. •					
	a. water	b. germs	c. pencils	d. insects		
	Put (/) or (X)					
•	The state of mo	atter can't be c	hanged from or	ne form to anot	her.	
					()
1	Matter exists ev	verywhere arol	und us in nature	•	()
1	The particles in	ice move mor	e freely than in	water.	()
	Water always t				ed in	
					()
	Matter consists	of tinu movino	a particles.		()
	Water vapor ho			matter)
6	·		container, such		low	,
	a balloon.	cig illi u cioseu	Container, such	us when goo b	()
6	Ice melts into w	rater bu coolin	a it)
		J.)
	Water has inde)
a	Two objects ca	n take up the s	same space at t	ne same time.	()

Write the scientific term:

1	Anything around us that has mass and occupies space	9.
		()
1	They exist inside matter in a continuous motion.	()
0	A state of matter in which matter has a definite shape.	()
4	A state of matter that can be poured in a container.	()
0	A device that is used to measure the height of a boy.	(,)
C	A device that is used to measure the temperature of m	nilk.
		()
1	A device that is used to measure the mass of apples.	()
8	A process in which ice changes into water.	()
9	A process in which water changes into ice.	()
7	Complete the following sentences:	
	Complete the following scheenees.	
1	Matter is anything that has and occupies sp	ace.
1	Matter can exist in states that are,	and
1	Matter can be described by, or	•
4	The of particles inside matter can describe its sto	ate.
(The particles inside move very freely.	
6	Light and sound are not, but they are consid	dered forms of
1	and are examples of g	aseous states.
8	Water has shape and size.	
9	Some matters are very small and we cannot see t	them, such as
	Or manufacture .	
10	can be poured in a container and it takes	

1 Oil - Milk - Feather - Juice

Wood - Ice - Oxygen - Iron

Air – Water vapor – Ice – Carbon dioxide

Water - Air - Light - Wood

Choose from column (A) what suits it in column (B):

SOLUTION (A)

Column (B)

- 1 Matter

2 Particles

- 3 Sound
- 4 Oxygen

- a. is not a matter.
- b. is an invisible form of matter.
- c. exist inside the matter in a continuous motion.
- d. exists in three states.

2

Column (A)

- Solid state
- 2 Liquid state
- **3** Gaseous state

Column (B)

- a. has indefinite shape and definite size.
- b. has definite shape and size.
- c. has indefinite shape and size.

3

Column (A)

- Thermometer
- 2 Balance
- 3 Measuring tape

Coumn (B)

- a. is used to measure the height of a boy.
- b. is used to measure the temperature of hot tea.
- c. is used to measure the mass of fruits.

Compare between the following:

P.O.C	Solid	Liquid	Gas
Size			
Shape			
Texture			
Motion of particles			
Space between particles			

Study the following figure, then complete the following sentences:

- Melting means that matter changes from figure (_____) to (_____).
- In figure (), particles are very close to each other.
- The particles in figure (_____) move more freely.
- Both figures are same in _____.
- Both figures are different in

Give reasons for:

- Air is a matter.
- Air has no definite shape and volume.
- Although gases are invisible, we can know they exist.
- Solids can keep their shape.

What happens if:

- Water is poured into a cup of water.
- 1 Ice cubes are exposed to heat.
- Liquid changes into gas (Concerning the speed of particles).

Guide Answers

Science Exercises for November Syllabus



Concept 2: Energy Flow in Ecosystems Concept 3: Changes in Food Webs

- 11 1 c 2 b **3** C **4** b 6 a 7 c 8 b **10** a 11 c 12 b **13** d 11 C **13** d 16 C T d 19 b **18** b 20 a 22 C 23 d 21 b 24 C **26** a **27** c 23 b 28 d **29** b **30** b **31** d **32** d 34 C 33 d 33 d 36 C 37 b
- **2 1** 90%
 - 2 Decomposition
 - Consumers
 - Coral reefs
- **5** grasses
- 6 Cold
- 7 filter
- 8 nutritious
- 9 consumers
- 10 benefits
- 1 harm
- 12 Cold
- 13 destroy
- 14 benefit
- 10%
- 16 go extinct
- To soil
- 18 white
- 19 producers
- 20 desert
- **3 1** X (II) X
 - 9 x 10 X
 - (I) X
 - 18 X
 - 22/ 21 X
- **1**
- 16 / 19 /
 - 20 /

O X

TO X

- Primary consumer
 - 2 Decomposers
 - 3 Decomposition process
 - Algae
- Seabird
- 6 Recycling process
- Extinction
- 8 Coral bleaching
- 9 Overfishing
- Ultra Violet Rays (UV rays)
- Population
 - Scavengers
- Coral reefs
- Microplastics
- 13 Population change
- 16 Pollution
- 17 Habitat restoration
- 18 Nursery
- 19 Zero plastics 20 Prairie

5

Producer	Consumer	
1. Grass	1. Rabbit	
2. Algae	2. Hawk	
3. Acacia tree	3. frog	
4. Marine	4. Alligator	
microorganisms	5. deer	
	6. Human	

Answers

Decomposer Scavengers Bactria Vulture Cockroaches Earthworms Hyenas Millipedes Crabs Houseflies

- 1 ⇒ c
 3 ⇒ d
 4 ⇒ b
 1 ⇒ d
 2 ⇒ f
 3 ⇒ e
 4 ⇒ b
 5 ⇒ a
 6 ⇒ c
- 1 Houseflies
 2 Fungi
 3 Bacteria
 4 Rabbits
 5 Zooplankton
 6 Floods
- 1 a. Grass ⇒ Rabbit ⇒ Fox
 b. Grass ⇒ Mouse ⇒ Snake
 ⇒ Eagle
 c. Grass ⇒ Grasshopper ⇒
 Frog ⇒ Snake ⇒ Eagle
 - 2 a. three b. grass
 c. snake d. frog
 - a. grassb. secondaryc. eagled. die
 - **a**. E **b**. secondary **c**. B
 - a. Coral bleaching
 - b. No
 - c. Increasing the temperature of water.

- Because scavengers break down food into small pieces before the decomposition process.
 - Because decomposition process returns nutrients back to the soil again.
 - Because recycling process helps in producing new products from waste materials instead of throwing them in landfills.
 - Because as the number of one species of living organisms increases, the food and water resources may run out and so on they will die.
 - To control the quality of the marine ecosystem in it.
 - Because gentle rain helps producers to grow so the desert ecosystem improves.
 - Page 8 Because falling of heavy rains may cause floods, so the grass dies and the desert ecosystem is destroyed.
 - Because marine microorganisms can make their own food.
 - Because the coral reef provides marine organisms with shelter and food.

- Guide Answers

- Because sea turtles cannot know the difference between corals and plastic pieces.
- Because when water becomes too warm:
 - Corals will get rid of the algae living in their tissues.
 - 2. This causes the coral to turn completely white.
 - Bleaching events stress corals and often they do not survive.
- Because plastic is not nutritious and it can also be toxic and sharp.
- Because corals filter the seawater to get their food and they also ingest microplastics as the pieces of food that they are getting from the water.
- Restoration process helps in restoring the land and water back to how they were before harm was done.
- in the ocean where the small pieces of corals are nurtured until they can be moved back to the reefs where they were dying.

- Dead things would build up, just like the trash in landfills.
 - 2 The number of primary consumers will decrease.
 - Primary consumers will die first, while other consumers may migrate or die.
 - Food and water resources will run out and disappear.
 - The numbers of prey decrease.
 - 6 Producers will grow and the desert ecosystem is improved.
 - 7 Floods occur, so producers will die and the desert ecosystem is destroyed.
 - 8 When the water becomes warm:
 - 1. Corals will get rid of the algae living in their tissues and their color turns completely white which stress corals and often they do not survive.
 - 2. Marine microorganisms will move toward an area where the water is cooler.
 - The population of species will decrease by them moving to another place or dying.
 - Plastic will cause damage to the marine life and affect marine organisms negatively.

Concept 4: Matter in the World Around Us

7.

- 11 11 b 22 b 33 c 43 c
 5 a 6 b 7 d 8 d
 - 9 b 10 d 11 c 12 d

 13 b 14 d 15 c 16 c
 - 17 b 18 c 19 b
- 2 1 x 2 / 3 x 4 / 5 / 6 x 7 / 8 x
- 9 x10 x1 Matter2 Particles

 - Metric stick
 - **6** Thermometer
 - 7 The balance
 - 8 Melting process
 - 9 Freezing process
- 4 mass
 - 2 three solid liquid gas
 - 3 shape color texture
 - 4 movement 5 gas
 - 6 matter energy
 - Water vapor oxygen gas carbon dioxide gas
 - 8 indefinite definite
 - germs air
 - Water the shape of the container

- Solid Liquid P.O.C Gas Definite Definite Indefinite Size Indefinite Definite Indefinite Shape No Smooth Moist Texture texture Move Move Move Motion of only a more very freely little bit freely particles The The The Space particles particles particles between have a lot have particles are of space. packed more tightly space. with each others.
- 8 1 1 to 2
 - 2 1

- **3** 2
- matter
- **5** state

• Guide Answers

- Because air has mass and occupy space.
 - Because the particles inside air have a lot of space between them and they move very freely.
 - Because they completely fill a closed container, such as when you pump air into a bicycle tire tube.
 - Because particles inside solids are close to each other and they move only a little bit.
- Water will take the shape of the container.
 - 2 Ice will be changed from the solid state into the liquid state.
 - The speed of the particles will increase and they will move very freely.



Concept 1.3 Change in food webs:

Lesson (1)

The ecosystem affected by:

- 1- Pollution.
- 2- Climate changes.
- 3- Human activities.

Pollution: it is the harms happen to air, water and soil due to human activities.

The effects of environmental changes on the food web?

- 1- The disappearance of producer: make consumers migrate to search for food.
- 2- The presence of a large number of one type of organism: make their Food disappear.

Protection of the ecosystem:

Protection the marine environment in Palau Island:

Control the human activities on land by:

- 1- Avoid water pollution (when throwing waste materials in ocean.
 - 2- Prevent overfishing (catching many fish from rivers, seas and ocean.

Note:

-Fishermen mustn't overfish coral reefs to conserve marine environment.

If an ecosystem changes the food webs will change.



The relation between all the components of an ecosystem for keeping the ecosystem balanced

- -If there is a gentle rain in the desert

 the desert ecosystem may be improved (Give reason)

 Because rainwater will feed the plants.
- -If There is a heavy rain in the desert ⇒the desert ecosystem may be harmed.

 (Give reason)

Because the water of heavy rain will cause flooding.

-If there is a drought and all the grass dies → the food web in the ecosystem may be destroyed. (G.R)

Because the plants will die and also the organisms will die.

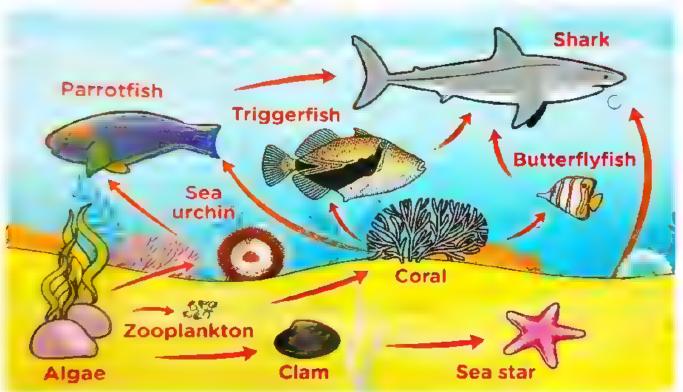
If there are many top predators in the food web
 → the other
organisms in the food web like lions, tigers and sharks may be
harmed. (Give reason)

because the top predators will eat all the organisms.

NOTE:

-THE SUN PROVIDES THE EARTH WITH LIGHT AND WARM.

Marine food web:





- · Algae ➡ clam ➡ sea star ➡ shark
- Algae → zooplankton → coral → butterfly fish → shark
- Algae → zooplankton → coral → tiger fish → shark
- Algae → zooplankton → coral → parrot fish → shark
- Algae → sea urchin → parrot fish → shark

Worksheet (1)

1-Choose the correct answer:

- 1- On extreme hot climate, the water of a lake
 - a. Increases due to evaporation.
- b. Decreases due to evaporation.

c. Changes into ice.

- d. Has a lower temperature.
- 2- All the following are human activities that affect a marine ecosystem, except......
 - a. Flooding.

b. Throwing human wastes.

c. Overfishing.

- d. Throwing plastic garbage.
- 3-All the following are top predators, except
 - a. Hawks.
 - b. Tigers.
 - c. Butterfly fish.
 - d. Lions.
- 4-The marine food web usually starts with......
 - a. Clam
 - b. Algae.
 - c. Zooplankton.
 - d. Parrotfish.



5-If clam are completely removed from a marine ecosystem, the survival of May be affected.

- a. Tiger fish
- b. Sharks
- c. Sea urchin
- d. Sea stars

Put (√) or (x):

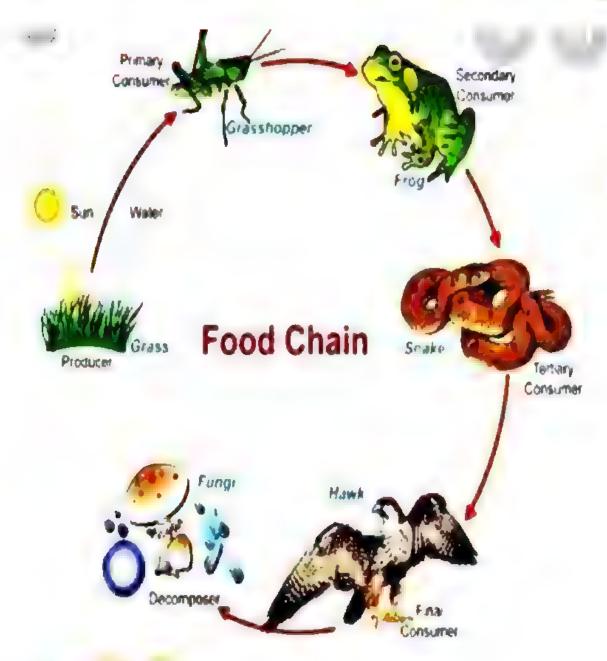
T-OAGLII21	ing is one of the climate changes that affects the marine ecosystem.
2-zooplan	kton can make their own food by photosynthesis process. () 🎽 🦈
3-if we int	roduce a new predator to an ecosystem , this ecosystem will be affected . (
What ha	appens if?
1-	Throwing big amounts of plastic garbage and waste materials in water.
*******	,

1,111

- > Energy can't be created or destroyed but it transfers.
- The first source of energy is the sun, then energy transfers to plants (producer), then transfers to (consumers) that when they die the (decomposers) convert them into simple substances and return the energy back to the soil.







Desert food web:



➤ The sun transfers energy to producers until it reaches the decomposers, as follows:



 The sun is the main source of energy.



Producer: green plants



 Primary consumer: energy transferred to the primary consumer when it feeds on plants.









Secondary consumer: energy transferred to the secondary consumer when it feeds on primary consumer.

7

1. Decomposer: gets energy from decomposing the bodies of dead organism.

- The energy in the overall system remains as the same.
- ➤ Energy is transferred between living organisms, most of the energy is recycled by decomposers back into the ecosystem .





Worksheet (2)

write the scientific term of each of the following:
1. They are consumers which feed on secondary consumers. (
They are living organisms that include bacteria and fungi, which return
energy back to the soil. ()
Complete the following sentences:
1-Predators of living organisms may be for other living organisms.
2- A predator gets From the prey which feeds on.
Put (√) or (x) and correct the wrong answer:
1) The energy in an ecosystem change by time . ()
2) The soil fertility depends on decomposers. ()
3) The sun produces energy that decompos <mark>ers use to m</mark> ake their food. ()
➤ Choose the correct answer:
1) Decomposers play an important role in returning the energy back to all the
following, <u>except</u>
A)the air
B) The soil
C) The water
D)The decomposers
2) In a food chain, the energy transfer
A)From a predator to a prey.
B) From a prey to a predator.
C) From a predator to a producer.
D)From a consumer to a predator.
3)It is better for a predator in a food web, to have
A) Only one type of decomposers.
B) More than one type of decomposers.
C) Only one type of prey.
D) More than one type of p



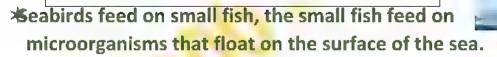
Lesson (2)

Population

- Population: it is the number of organisms of one type of species living in an area.
- Factors affect the population:
- ✓ increasing or decreasing the amount of water.
- ✓ increasing or decreasing the temperature.
- ✓ Climate change.
 - We know that all species depend on other species for survival, so an increase or decrease in one species affect the population causing population change.

Example:

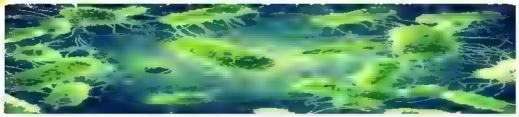
Microorganisms (producer) → small fish → seabirds



*Seabirds build their nests on the topof mountain cliffs.

Note:

- ✓ Microorganisms:
- EThey are too small organisms that can't be seen by eyes.
- They are producers in the marine food web.
- EThey make their own food and live in cold water habitats.



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Give reasons for:

➤ If water temperature increase, microorganisms will move search for colder water then small fish search for microorganisms that lead to death of sea birds.

Worksheet (2)

If the temperature of water increase the sea birds will die.
Write the scientific term of each of the following:
1-They are organisms that are too small for people to see with only their eyes .
()
2-It is the number of organisms of one type of species live in an area.
Put (✓) or (x):
1-any food chain can be formed of producers only . ()
2-seabirds eat small fish that swim near the water surface. ()
3-a desert food chain doesn't contain any type of fish or sharks. ()



Lesson (3)

Habitat loss

- ➤ Healthy habitats are important to all organisms in food web (G.R): because they provide organisms with resources that they need to survive.
- > When these habitats are destroyed, different organisms may not be able to survive.
- Example of habitat loss in a coral reef system :

Coral reef:

- ✓ Some of the most diverse and valuable ecosystem on earth.
- ✓ they provide food and shelter for large numbers of fish and other marine organisms.
- ✓ They are important for tourism.





When water is very warm, coral reef will get rid of the algae living in their tissues



it makes coral reefs turn completely into white.

- > The result of coral bleaching:
- ✓ Fish and other marine that depend on coral reef for food and shelter may die.
- ✓ People that depend on coral reefs and for food will be negatively affected.

Notes:

- > Human activities can affect the ecosystem by :
- > Building up more buildings.
- ➤ Throwing waste materials in water.
- Overfishing in seas and oceans.



Plastic pollution:



- ➤ Plastic in sea affect marine life, where whales, sea turtles, sea birds and fish can't often differentiate between real food and plastic.
- > Sea turtles can't differentiate between a jelly fish and plastic so it eat a lot of plastic and get harmed.
- ➤ Coral reefs harmed by feeding on plastic due to the effect of UV rays which break down the plastic into micro plastic which look like the food of coral reef



Worksheet (3)

(0)
Choose the correct answer:
1- Healthy marine environment is important for survival of
A) Humans
B) Lions
C) Fish
D) Deers
2- When water temperature increases, algae leave tissues of so they
pecome bleached.
A) Seabirds
B) Coral reefs
C) Clam
D) Sharks
3- Both of sea turtles and Are present in the same marine food chair
A) Deers
B) Jelly fish
C) Eagles
D) Tigers
4- When coral reefsthe seawater, they may ingest micro plastics.
A) Evaporate
B) Filter
C) Cool
D) Warm
 Write the scientific term of each of the following:
1) It is a condition in which coral reefs turn completely into white.
()
2) Small pieces of plastic in the size of rice grains and they cause harms to
marine organisms.



- 3) It is a process that people can do for plastic waste materials Instead of throwing them in the seas and oceans.
- Complete the following sentences using the these words:
 (Toxic overfishing shelter extinction predator)
- 1- Healthy natural resources include clean air, healthy food, water and suitable.....
 - 2- The human activity that directly decreases the marine population is
- 3- Habitat loss is not only decrease marine population but also it is one of the main causes of
 - 4- When a sea turtle Eats a jelly fish, this means that the sea turtle is a
 - Give reasons for :

1- Coral bleaching happens when the water temperature i	1363.

2-Both of rising water temperature and ingesting micro plastic are

harmful for coral reefs.	

57



Lesson (4)

Habitat Restoration

- Habitat Restoration: it is the process of returning a habitat back to its natural state before harm was done.
- ✓ Habitat Restoration projects try to repair all parts of the habitat.
- ✓ Most of habitat restoration projects require a lot of work and take a long time.
- **Example:**

Rebuilding coral reefs: (a coral reef rehabilitation project)

- ✓scientist collect small parts of different coral species and then move them to a nursery.
- Nursery: is an area in the sea, where scientists take care of small pieces of coral until they grow up.
- ➤Protecting coral reefs from plastic pollution: In Egypt, coastal communities near the coral reefs applied a new way of life known as a (zero plastic) where people can:
- ✓ Replace plastic forks with wooden ones.
- ✓ Replace plastic bags with cloth ones.





Worksheet (4)

	•	Put (or	X	:
--	---	-------	--	----	---	---

1)	Citizens must share in returning a habitat back to its healthy conditions before
	harm was done ()
2)	Nursery is a natural habitat in the sea, in which coral reefs continue growing
	and reproducing. ()
	Removing plants negatively affects consumers in an ecosystem. ()
•	Write the scientific term of each of the following:
1-	It is an area in the sea, where the scientists take care of small pieces of coral
	until they grow up. ()
2-	A process of returning a habitat back to its natural state before harm was done.
•	Choose the correct answer:
1-	Habitat Restoration projects allow scientists tothat occur to an ecosystem.
A)	Increase harms.
B)	Decrease harms.
C)	Keep harms.
D)	Increase damage.
2-	The place in which we can take care of small pieces of coral until they grow up is known as
	,
A)	Food chain
B)	Food web
C)	Grassland '
D)	Nursery
3-	All the follow processes show coral reefs in healthy conditions, except
	Growing
•	Bleaching
C)	Reproducing
D)	Filtration
4-	Zero plastics projects that is applied in Egyptian coastal communities, means

that the using of plastic products decreases by





- A) 0%
- B) 10 %
- C) 90 %
- D) 100%
- Give reasons for :

·	nealthy than applyi		



UNIT (2) CONCEPT 2.1 LESSON.1

MATTER

-Matter:

It is anything that has a mass and takes up space (has a volume)

States of water:

1-Gas state:

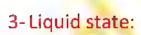
Such as: Air- Water vapor(steam)- Carbon

dioxide- Oxygen



2-Solid state:

Such as: Ice- Gold- Wood



Such as: Oli- Water- Milk- Vinegar





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Geel 2000 Language Schools Note:

- Water can be found in the three state.
- Water can be change from one state to another

Worksheet (1	:
-------------	---	---



Lesson (2) Observing Matter

- Solids: Have definite (fixed) volume and shape.
- Liquids: Have definite volume but they don't have definite shape so, they take the shape of their containers.
- Gases: Definite no volume and shape, so they take the volume and shape of their containers.

Note:

- Some gases cannot be seen such as air but we can see air moving when the wind blows and moves some object
- And we can see a balloon gets larger when you blow air into it matter is some thing that we can
 - Feel (air)
 - See (ball)
 - Smell (flower)

The particles of all Matter:

- o all matter are made up of tiny things (particles) we cannot see
 - with our eyes
- o particles of all matter are in continuous motion
- o some matter are too small to see with our eyes as air and germs but
 - they also made up of tiny particles



1-Particles of solid matter:

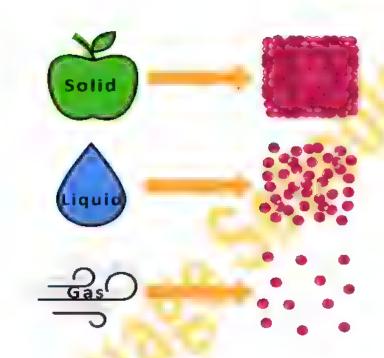
- They are very close to each other (packed tightly).
- They have less energy.
- They move only a little bit.

2-Particles of liquid matter

- They have more spaces.
- They have more energy
- They can move more freely.

3-Particles of gases matter

- They have a lot of spaces.
- They have a lot of energy
- They move very freely



Measuring and observing matter

- 1. We can measure the length of some matter using ruler or measuring tape.
- 2. We can measure the mass of matter using a balance (scale.)
- 3. We can measure the temperature of some matter using thermometer

We can determine the state of matter by

- 1. Describing the properties of matter
- 2. The motion of particles of matter



Note: There are some things that are not matter as light and sound which are forms of energy.

Note: -

- Matter can change from one state to another such as from solid to liquid by melting, from liquid to solid by freezing.
- If there are two objects they cannot take up the same space at the same time

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Worksheet (2)

Q.1-Give reasons for:

1- Oxygen has no definite shape or volume.				
2- Stone has definite	e shape and volume.			
3- Vinegar is a liquio	l matter.			
O.2-Put () or (X)	and correct the wrong one:			
1. All forms of matte				
2. Liquids don't take	the shape of the container that they are placed in. ()			
3 Both oil and wood	have definite shape.()			
4.On transferring water from one pot to another, its volume will change.()				
5. Light and sound a	re forms of matter. ()			
Q.3- Choose from c	olumn (A) what suits it in column (B):			
A	В			
1. Gasoline	a) Its particles have medium energy. ()			
2. Carbon dioxide	b) Its particles are packed tightly. ()			
3. Sand	c) Its particles do not at all. ()			
	d) Its particles move freely. ()			



Lesson (3)

▶Particles of Matter

You have learned that any matter is made up of tiny particles that we cannot see with our eyes, where:

- Particles are known as "the building units of matter".
- Normal microscopes help us see some particles of matter.
- Different kinds of matter are made of different kinds of particles such as :
- Particles of gold are different from particles of iron.
- Particles of water are different from particles of milk.

Now, let's study different kinds of particles.

➤ Particles of solids:

Particles of solids are closely packed (arranged) together and this leads to:

- Solids keep their shape.
- When they vibrate or move around their places,
 these particles are held together, so each particle
 cannot move separately from one place into another.
- -They cannot slide over each other.

Particles of liquids:

They are held more loosely, than particles of solids, so:

- -They move faster than solid particles.
- -They can slide over each other so, they take the shape of their containers













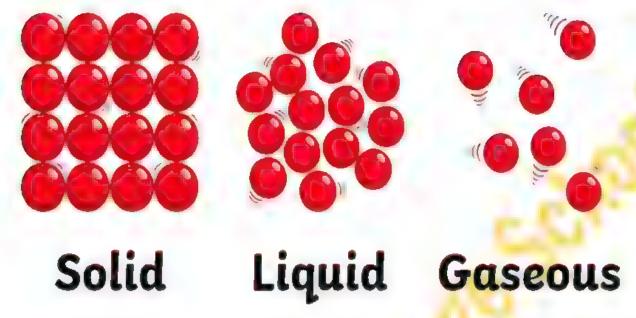
Particles of gases:

They are not held together, so:

- -They move very quickly in all directions.
- -they can spread out to fill up any container they put in.







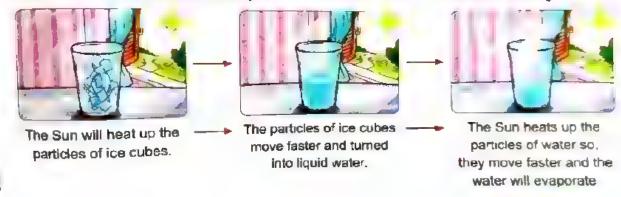
Modeling the particles of matter:

 Using model is away to some scientific concept than can make ideas more clear.





When a cup of ice cubes exposed to the Sun in a hot summer day:



Example.

- To make a model of particles that make up a matter, you can use ping pong balls as they are three dimensional units and can be separated from each other.
- You can use these balls to describe the movement of particles of the three states of matter.



Ping pong ball

Note:

- When you heat a solid matter, the movement of its particles becomes faster.
 - By heating a liquid matter it changes into gas matter.
 - Particles of solid are organized and have a regular pattern.

The size of particles depends on:

1- The type of particles.

such as

2- How particles connect each other.
To see the components of one particles





One blood cell, scientist cannot use the regular microscope, but the use special microscope

Called { Electron microscope}

Note: Size of particles depend on :

- 1-The type of particles.
- 2-How particles connect with each other.



Electron microscope

How can we show the particles exist?

We can use gas matter such as air which is made of invisible tiny particles as follow:

When you blow up a balloon	When you squeeze a balloon



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- The particles of air inside the balloon move very quickely
- The particles of air hit and bounce the balloon frome inside, so they produce a force that inflates the ballon and gives it a round shape.



- The particles come close together
 so ,the balloon becomes smaller
- If you squeeze more on the ballon, it will pop and the particles of air inside the ballon will escape out into the air.





Worksheet (3)

Q.1- Complete the following sentences:

2- Particles of	
Q.3- Choose the correct answer:	
1- By changing theof a matter, its state may change.	
a. mass b. volume c. Color d.temperature	
2. If water is exposed to high temperature, its paricles will move, and the water may change into	
a. faster-ice. b. faster-water vapor. c. slower-ice d. slower-water vapor	
3- We can use a model to study very large things sucn as	
a. solar system. b. germs. c. microbes. d. viruses	
4. By blowing up a balloon,	
a. its volume decreases. b. its color changes. c. its volume increases.	
d. its mass doesn't change.	
5. To examine the structure of tiny particles of a matter, we can use	
a. ruler. b. balance. c. thermometers. d. microscopes.	



Geel 2000 Language Schools **Q.4Give reason for:**

1- Some times we need to use an electron microscope.2- Using model to study some scientific concept.





Lesson (4)

Models

Models help us understand things we cannot easily see such as:

 We cannot see the Earth which is too big while we are standing on it. But, we can observe and understand it using the model of globe shown the previous picture.

Model:

It is a copy that is similar to a real thing.

How model help us look at big things?

Example:

1. The Earth:

A globe represents a model of the Earth which shows us:

- The shape of the Earth
- How much of the Earth is covered with water.
 where different countries are located.

2.The solar system:

Solar system is a very big place that consist of many planets such as earth and it help us to

- 1. See all planets at once
- 2. Compare between plantes . which one is the biggest and which one is the closest to earth



How model help us look at small things

Models can represent very tiny thing in abigger size because It is hard to see them

Germs are very tiny and they are spread around us which make us sick

- A model of a germ helps us to:
- See the shape of a germ without microscope.
- See different parts of germs which help them to know how to spread from one person to another.





Models help us understand how thing work

Example: A model of a volcano:

A model of a volcano shows us:

- The shape of a volcano.
- How the liquid that comes out of a volcano a real eruption.

Example (2: A model of an airplane

- From the previous explanation, it is clear that models help us:
- Teach something about the real things they copy.
- See and understand how things work.
- Learn about many things at just the right size.
- Know what we could not otherwise see.

Modeling States of Matter

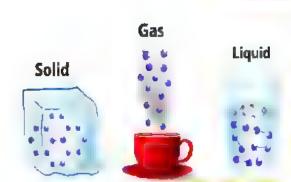


during



The arrangement of particles in:

- Solid matter: They have a regular pattern (organized).
- Liquid matter: They have a random arrangement (not well organized).



Gas matter: They have a random arrangement (not organized at all)

Worksheet (4)

Q.1) Choose the correct answer:

- 1. The model of the Earth shows how much of its surface is covered with
 - a. gasoline.
- b. water.
- c. milk.
- d. animals.
- 2. We can see all planets of the...... system including the Earth by using a model.
- a. solar
- b. digestive
- c. respiratory
- d. muscular
- Some liquids come out of a during its eruption.
- a. star
- b. wooden piece c. volcano
- d. plastic piece
- 4. Particles of are organized and have a regular pattern.

- a. solids only b. gases only c. solids and liquids d. liquids and gases
- 5. Gases differ from solids and liquids in that gases............
- a. can be poured. b. have a definite shape.
- c. fill any container they are put in. d. have a definite volume.

Q.2) Write the scientific term of each of the following:



1- A model of the whole world that is made in the shape of a large ball ()
2- A copy that is similar to a real thing which we cannot observe with our eyes.
()
Q.3) Complete the following sentences :
1- Water vapor particles are loosely packed, so that water vapor do not have a definite or or
2- We can study the location of countries by using a which represents a model of the Earth.
3- Liquids that come out of a volcano have definite but they have no definite
Q.4) Give a reason for the following:
Both liquids and gases don't have a definite shape and take the shape of their containers.
Q.5) What happens to?
The arrangement of particles of water after its freezing.



EL MOTAMYEZ - SCIENCE Questions Bank NOVEMBER REVISION

	Question 01	Choose the correc	t answers		
	All of the following	ng cause destroying t	the ecosystem exce	pt	******
U	gentle rain	b heavy rain	© drought	d	pollution
(2)	In marine food w	ebs,	are considered pro	oduc	ers.
9	shark	(b) algae	© bacteria	d	small fish
(3)	Energy could be	recycled back into the	e ecosystem by the		********
	predators	(b) prey	© consumers	d	decomposers
4	All the following	organisms can make	their own food, ex	cept	
	grass	(b) rabbit	© algae	d	microorganisms
(5)		an area in the ocean	where the small pi	eces	of coral are
	nurtured (a) Coral reef	(b) Nursery	© Protectorate	a	Garden
	0	oved from an ecosys	0	w	
•	(a) producers	b primary consumers	© secondary consumers		decomposers
7	coral reefs get ha	rmed when	Corradication		
	water temperature increase	b ingest microplastic	fish take it as a shelter	d	a,b
(8)		contain			
	food	b water	© Shelter	d	all the previous
(9)	All the following	examples represent i	huma <mark>n bad activi</mark> tie	es, ex	cept
	a overfishing	b pollution	© floods	d	cutting trees
10	Food chain descr ecosystem	ibe the way of transf	erringamono	g livi	ng organisms in
	(a) consumers	(b) decomposers	© producer	d	energy
(11)	Which of the follo	owing from human a	ctivities which harr	n ma	rine ecosystem
_	Over fishing	(b) leakage of oil into water	throw wastes in water	d	all the previous answers
(12)		rays done by coastal o		uce	•
	Replacing wooden forks with plactic	Using grocery plastic bags	Using single- use plastics	(d)	Using cloth bags



ones





(13)	Which of the following represents the correct marine food chain?			
	a Algae⇒coral→	shark⇒parrotfish	(b) Algae→sh	ıark⇒coral⇒parrotfish
	© Algae→shark-	>parrotfish→coral	d Algae→co	oral⇒parrotfish⇒shark
(14)	When a predator	feeds on a prey,	is tra	nsferred between them
	(a) water	boold (a)	motion	energy
(15)	live on t	the top of mountain	cliffs and feed	on small fish
	(a) Turtles	(b) Corals	© algae	Seabird
(16)	is/are cor	nsidered as a top pre	edator	
	(a) tiger	(b) rabbit	© shark	d a,c
(17)		(Acacia Tree →Gira		
MET SHARE	tne symbol → repr	esents the transferr	energy	(d) motion
(18)	<u> </u>	Is unique from other	r forms of matte	er?
	Solids take the :		_	e a definite size and shape.
	container. C Solids can be po	sured	(d) Solids fill w	hatever container they are
	Solida tan be pe	Juica	put in	matever container they are
(19)	All matter is m			
	(a) molecules	(b) proteins	© cells	(d) atoms
20	What makes g Choose all that ap	ases different from	other states of	matter?
	(a) Gases can be p		(b) Gases hav	e a definite shape.
	Gases fill the sha they are put in.	ape of any container	d Gases do n	ot have a definite shape.
(21)	Mhich two pr	operties of matter n	ake it possible	to make star-shaped ice
	cubes? Choose tw	o answers. e shape of whatever	(a) gases sore	ad out to fill any container
	container they	are poured into		
	© Solids have a de	•	(a) Gases nav	e no definite shape.
(22)	Matter is		O	41-41
	(a) Anything in the	ie world.	up space.	that has mass and takes
	© only water in o	different states	d only solid	
	A How can a mo	del be helpful?		
(23)	Models give us instructions about something.	step-by-step out how to build		ke something look better es in real life.
	it is in real life.		d Models car	n help us see things that



are too small or too big to observe

								n 2 de 2
(24)	According to hard	ness feathers are						
	soft	(b) hard	(0)	round	d	squar	e	
(25)	Ice is an example o	fstate of wa	ater					
	solid	b gas	(6)	liquid	(d)	a,b		
(26)	has a de	finite size and no d	lefini	te shape.				
	(a) Air	(b) Ice	©	Water	(d)	Wood	1	
(27)	We can measure te	mperature by usin	ıg	TH 4 T T T A				
	thermometer	b scale	(0)	meter	d	measu	uring 1	tab
(28)	All the following ex	kamples represent	solid	states, except				
	lio 📵	b book	©	humans	d	rocks		
(29)	We can measure th	e weight using						
	measuring	b scale	©	ruler	d	meter		
60	tape During the eruptio	n oflava o	ome	out				
99	(a) star	(b) volcano	_	wooden	(d)	plastic	piece	2
	Nysista sa	O .	i	piece				
(31)	Which matter has a		_		0			
	(a) Water	(b) Ice		Oil		Air		
(32)	All the following fr		artici	_				
	(a) they are tiny	(b) they can be seen by the	ဖ	they are in continuous	•	they a		
	From the uses of m	eye		motion				
(33)	(a) they help us see			they show us v	vhat	we con	ld not	500
	how things worl	ζ.	0			110 000	107101	300
	they are a great things at the rigi	-	d	all the previous	S			
(34)	When you blow a t							
	(a) gas particles bou	_	(b)	gas particles ex		force t	hat cro	eates
	inside of the ball (c) gas particles exe		(d)	Its round shape all the previou				
	inflates the ballo	on .		<u> </u>				
	Question 02	PUT (√) OR (×)						
	Food webs show	that many organ	nisms	share food re	esou	rces		
0	within ecosysten						(1
(2)	Fungi - bacteria a	are considered an	exa	mple of consu	ımeı	'S .	()
3	Scavengers comp	olete the decomp	ositic	on process.			- ()



4	Food web made up of 2 food chains or more.	(1
(5)	Scavengers come after decomposers in the food chain.	(1
6	Decomposers include snails, slugs and crabs.	(1
1 Heat Dates	Decomposition process takes place on land and also underwater.	()
6	If organisms disappear in the ecosystem, this may lead to the destroying the ecosystem.	()
9	Top predator are consumers that exist at the top of food chains.	()
10	Using wooden forks and cloth grocery bags increase the plastic pollution	()
1	Seabirds feed on small fish to get energy.	(1
12	Using plastic bags is better than using cloth bags.	()
13	Gentle rain cause floods and damage the desert ecosystem	(1
14	Microorganisms are producers in marine food chains	()
15	The human land activities on land have no effect on the marine ecosystem.	()
16	Algae is example of producers in desert ecosystems.	()
17)	If coral reefs are destroyed, many marine food chains will be destroyed	(}
18	Energy is transferred from prey to predators in any ecosystem.	()
19	If producers disappear, consumer may die	-()
20	Recovering shelter and bringing back food resources help animals to survive	-)
21	Coral reefs are considered as living organisms	-	1
22	Plastic pollution harm marine environments	(1
23	Restoration processes always take a little time	()
24	Corals and sea urchin are examples of top predator in marine ecosystem	()
(25)	When water temperatures decrease coral bleaching happens	(1
26	The particles in ice move more freely than in water.	-)
27	A solid keeps its shape when it is moved from one place to another.	()
28	When you blow a balloon, gas particles exert a force that inflates the balloon.	()
(29)	Water vapor is the solid state of water	-	1



SCIENCE QUESTION BANK		
PRIMARY 5-FIRST TERM	20	أ.محمود سعيد

		ىعىد ~	m 7 do:
30	Matter exists everywhere around us in nature.	-	1
31	All states of matter have the same properties	- (1
32	In gas state, the particles can keep their shape.	()
33	A liquid has a definite shape and volume.	-	1
34	Some matter is very small that we can't see as germs	- (1
35	Models help us see germs without a microscope	- (1
36	Particles of gas packed tightly with the others	-(1
37	Milk takes the shape of the container that it is poured in.	-{	1
38	All matter made up of large moving particles	()
39	Water has no definite shape and size.	-{)
40	Matter exists in four states	-{)
41	Models are a great way to see many things at the right size.	- (1
42	A solar system model tells us about planets which is the	-)
	biggest and which one is closest to earth	•	
43	To show the particles of a gas, we stick the buttons with a very long distance between them.	- ()
44	We can see particles inside matter with the naked eye	-(1
45	To measure the taliness, we use scales	- ()
46)	Some particles are so small that normal microscopes cannot detect them.	(}
47	Models can be used to describe very small objects only	- ()
48	Ice melts to water by heating	-{)
49	The motion of particles in liquids is slower than that in solids.	()
50	Gases are not matter because they are invisible.	- (- }
	Question 03 Complete the following sentences using words between brackets		

- Sea birds feed on small fish, they build their nest (in water on the top of mountain cliffs)
- 3of energy transfers between living organisms in a food web (100% 10%)
- has bad effect on marine life (Plastic coral reefs)
- If the climate is suitable, the population of a species will........... (decrease increase)



6 Coral reefs (filter – pollute) the sea water to get their food When coral bleaching happen, coral reefs will 7 (die - grow healthy) (8) Water of lake (increase – decrease) during extreme hot climate 9 Habitat restoration projects (benefit – harm) the ecosystemis from human activity which cause habitat loss 10 (add building and roads - recycle plastic) 1 The marine food web started with...... (algae - parrotfish) 12 can make their own food (fish – microorganisms) 13 If all producers die, rabbits will..... (die -not be affected) 14 Gentle rain..... desert ecosystem (harm – improve) is one of the best ways to reduce plastic pollution in the (15) ocean. (Throwing plastic in seas - Recycling plastics) Habitat loss is one of the main causes of (16) (Increase the population-extinction)of water temperature causes the migration of (17) microorganisms to another habitat. (increasing – decreasing) (18) leakage of oil into the water (harm – protect) marine ecosystem Pollution harms ecosystem and the number of living organisms (19) (decrease - increase) When ice transfer from container (1) to different container (2), (20) the volume of ice will.....[increase - doesn't change] Matter consists of identicalin a state of motion. (21) (Particles – volume) The model which shows us all the planets is called (22)(solar system model - germs) In state, particles are very close to each other (23) (Solid – gas) is the process of preserving vegetables to be fresh. 24) (Melting -Freezing) 25 All matter is made up of particles (tiny - large) (26) Matter can change from one state to another. (True – false) In solid state, the particles (27) (Take the shape of their container - keep their shape)



28	A globe is a model that shows you
29	The particles of state vibrate or move around its place (liquid – solid)
30	In gas state particles move(slowly - quickly)
31)	Scientists can use to see individual particles inside matter. (Magnifying lenses - electron microscopes)
32	(Juice - Ice)
33	(Germs - solar system)
34)	Anything that has mass and occupies space is called (energy - matter)
35	When ice cubes are exposed to heat, (The particles move faster - the particles move slower)
36	The movement of particles of water are slower than that of (Wood-oxygen)
37)	Which of the following matter has a no definite volume and shape? (Ice - Air)
38	Some matter is very small and we cannot see it, such as
39	is used to measure the mass of objects (measuring cup – balance)
	Complete The Following Sentences
1	Food web is a model that describes flow between living organisms in an ecosystem.
2	process is considered as a nature's recycling factory.
3	The sun is the source of
4	When number of secondary consumers decrease, the number of primary consumers and the amount of producers
(5)	When water becomes warm, will move to cooler
_	water.
6	Heavy rain causes which destroys desert ecosystems.
7	When water becomes too warm, corals will get rid of the
0	the coral turns into colour in their tissues.





(8)	Some human activities such as and	may	
	affect marine environments.	halm thans	
9	transfer between animals in a food web to l	neip them	
10	is an area that provides food, water and she	elter to all	
•	living organisms which live in.		
(II)	is the area in the ocean where the small pie	ces of	
	coral are nurtured.		
12	Coral reefs provide marine organisms with		
13	In food chain energy transfer from producer to		
	You can use a ruler to measure the of your b	oook	
15)	and are examples of gaseous stat	es.	
16	Matter can exist in states, that are	_	
	and gas .		
17	is amount of space occupied by matter		
18	Motion of particles in liquids is than that in:	solids.	
19	Gases have shape, volume		
20	Solids have shape, volume		
(21)	In state the particles have a lot of energy an	nd move	
	very freely .		
22	A model of a germ helps us to see its shape without u	sing a	
	which is used to magnify tiny objects.		
23	Scientists use to see tiny particles.		
24	Matter consists of very tiny		
Си	uestion 05 Write the scientific term for each of the f	ollowing	
1	It is a process through which humans make new		
	products from waste materials instead of going into	()
	a landfill.		
(2)	They are organisms that break down the bodies of dead animals into small pieces.		
	dead armitals into small pieces.	()
(3)	A natural process through which the nutrients		
	found in dead organism's bodies return back to the	1)
	ecosystem.	•	,
4	It is a process through which decomposers can	_	
	recycle elements back into the soil.	()
(5)	A group of living organisms that complete the food	,	1
	chain cycle.	()



6	A group of interconnected food chains.	()
7	It is an area in the ocean where the small pieces of coral are nurtured until they can be moved back to the reefs.	()
8	A human activity that affects marine food webs and cause decreasing the number of fish.	()
9	Small pieces of plastic are formed due to the falling of the sun UV rays on it.	()
10	It is the returning of the land and water back to how they were before harm was done.	()
(1)	Small organisms live in cold cannot be seen by eyes considered as a producer in marine food web.	()
12	Flying living organisms that build their nests on the top of mountain cliffs and feed on small fish.	t)
13	When water temperature rises up the coral reef turn completely into white.	()
14	They are consumers that exist at the top of food chains.	()
15	It is the number of organisms of one type of species living in an area.	()
16	An example of producers in the marine ecosystem.	()
17	Sun rays that break down plastic forming microplastic.	()
18	living organisms that return the energy back into the ecosystem.	()
19	Any change in numbers of organisms of one type of species.	()
20	They are consumers that feed on secondary consumers.	()
21 Nest	It is a model shows different feeding relationships among living organisms.	()
22	The state of matter that keep its shape and its particles packed tightly.	()
23	The state of matter in which particles have a lot of energy and move very freely.	()
24	A model of the whole world that is made in the shape of a large ball.	()
25	The state of matter that has fixed shape and	,	1



			ود سعید 🔑
26	It is a copy that is similar to the real thing.	()
27	A state of matter that can be poured in a container and take its shape.	()
28	A process in which ice changes into water.	()
29	A tool is used to measure the length of wall or room	()
30	A process in which water changes into ice.	()
31)	State of matter which vibrate or move around their place	()
32	State of matter that has definite volume, no definite shape	()
33	State of matter that has no definite shape and volume	()
34	The building unit of matter.	()
35	It is a measure of the amount of matter.	1)
36	The state of matter in which the particles are packed in a neat arrangement	()
37	A tool (device) used to see tiny particle such as a germs	()
38	The state of water when its temperature between 0°C and 100°C.	()
39	The state of matter in which particles spread out and escape quickly	()
40	The property of matter which is measured by the measuring cup.	()
4	A device that is used to measure the mass of apples.	()
42	It is anything that has mass and takes up space.	()
43	The property of matter which is measured by the balance.	()
44	A process that keeps vegetables fresh and ready to use for longer periods of time.	()
(D)	Give reason for each of the following		
1	Scavengers come after decomposers in the food chain	l	
(2)	Soil fertility depends on decomposers.		

3	Decomposers have great importance
1	Gentle rains cause a healthy ecosystem.
5	Fire forest has negative effect on living organisms
6	Microplastics have a bad effect on corals.
7	Heavy rains cause an unhealthy ecosystem.
8	Plastics are so harmful for marine ecosystems.
9	The nursery plays an important role in the recovery of coral reefs
10	Coral reefs are important for marine organisms and human.
(11)	Air is matter.
(12)	Book has definite shape and definite volume.
(13)	Wood is solid matter
(14)	Milk is considered as a liquid
15	Gases can escape into space.
16	Steam is gas state.
17	Water vapor has no definite shape or volume
18	Solid particles can keep their shape.
(10)	Chef put vegetables in a freezer or a refrigerator.



Question 07

What happens If?

If an organism in an ecosystem disappears
Absence of all decomposers from an ecosystem.
Grass disappears from an ecosystem. (Concerning the primary and secondary consumers).
When temperature of water contain microorganisms increases
The number of one species increases a lot. (Concerning food resources).
When the grass removed from ecosystem
Adding a road in the forest for moving cars.
There are many top predators in a food web. (Concerning the number of prey).
The water becomes warm (Concerning corals and microorganisms).
Gentle rains fall on the desert.
Sun UV rays fall on plastics for a period of time.
Heavy rains fall on the desert
The amount of plastics in water rises.
When small lakes exposed to extreme hot climate
When ice cubes exposed to heat (concerning the state and the speed of particles)
Boiling water for long time
You squeeze a balloon too hard.



Question 05

choose from column (B) what suits it in column (A)

	(A)		(B)
1	Photosynthesis process	(1)	It is a process through which humans make new products from waste materials.
2	Decomposition process	(b)	it is a process in which the nutrients are returned to the ecosystem.
3	Recycling	©	it is a process through which producers can make their own food.
		6	3
	(A)		(B)
1	Decomposers	(1)	They are organisms that break down the bodies of dead animals into small pieces.
2	Scavengers	(b)	Made up of several interconnected food chains.
3	Food web	©	A group of living organisms that complete the food chain cycle.
		-	
	(A)		(B)
1	Microorganisms	(1)	It means the increase or decrease in the number of one species in any area.
2	Population Change	(b)	They are small plastic pieces are even smaller than a grain of rice.
3	Microplastics	©	is a producer in the marine food web.
		-	
	(A)		(B)
1	Habitat	(1)	Is one of the main causes of extinction.
2	nursery	(b)	the environment that the living organism lives in.
3	habitat loss	©	It is an area in the ocean where the small pieces of coral are nurtured.



(A)	(B)
1 Coral bleaching	a can make their own food.
2 Seabirds	means the coral turns into white.
3 Microorganisms	may cause extinction of animals.
Habitat Loss	dive to search for food.

6

(A)	(B)
drought	desert ecosystem might get better.
gentle rain in the desert,	lead to floods.
3 heavy rain in the desert	ecosystem might destroy.

7

(A)	(B)
oxygen	solid state
2 desk	b liquid state
3 juice	gas state

(8)

(A)		(B)	
1	matter	(3)	is a copy that is similar to the real thing help us to understand things we cannot see easily.
2	temperature	(b)	it is anything that has a mass and takes up space.
3	model	©	from properties of matter that used to measure how hot or cold the matter is.

(A)	(B)	
1 Thermometer	is used to measure height	
2 Balance	is used to measure temperature	
Measuring tape	is used to measure mass	







(A)		(B)	
1	Matter	(1)	is a form of energy.
2	Particles	(b)	is gas state
3	Sound	0	are in continuous motion inside the matter.
4	Oxygen	(d)	is anything that has mass and occupies space



(A)	(B)
1 Electron microscope	is used to see the individual particles.
2 Globe	b shows us Earth only.
3 Solar system model	shows us all the planets.

(A)	(B)
1 Ice	takes the shape of container, can flow, and particles are not so near.
2 Water	has fixed shape, and particles are very near each other.
3 Water vapor	does not have a fixed shape, takes up all the space of the container and the particles are far from each other.

	(A)		(B)
1	* 33.55	(3)	solid state
2	2	(b)	liquid state
3		©	gas state



Question Opc

When water temperatures rise

Complete the following using words between brackets



(energy -pollution - sea birds - coral bleaching)

$oldsymbol{oldsymbol{\cup}}$	When week temperatures had thinking help end
2	Throwing plastic wastes into a river causes water
(3)	When predator feed on prey , predator getfrom prey
(4)	dive deep down into the sea to feed on small fish
	(Smoke - cold - pollution - dle - ash)
(1)	Microorganisms live inwater.
2	If the grass removed from ecosystem, primary consumers that feed on plants will
3	to human bad activities .
(4)	produced from burning forest cause pollution which harm animals .
	(3)
	(sun light-flood - small fish -producer - tertlary consumer)
(1)	Heavy rain in the desert lead towhich harm ecosystem
2	feed on microorganisms floating on the surface of the sea.
(3)	Microorganisms are considered as aliving
4	organisms. Microplastic form from broken down of plastic by UV rays of
5	the secondary consumer is considered as prey for
	(Measuring tape – solid – mass – liquid)
1	Instate the particles are packed tightly with the others
2	is state of matter that can be poured and take the shape of container.
3	Matter is anything that hasand occupies space.
4	You can useto measure the length of a table .





(globe – gas – force – solar system – volcano model)

1	when you blow a balloon, gas particles exertthat inflates the balloon.
2	The volume and shape change instate .
3	model shows us all the planets, whilemodel shows us Earth only.
(4)	ooze liquid to model what happens during a real eruption.
	(Solid – gas – electron microscope – earth)
1	The particles inside amatter move very freely.
(2)	A globe is a model of
(1) (2) (3)	matter has definite shape and volume.
4	Scientists can use special microscopes calledto see individual particles.
C	Question 10 Answer the following questions
1	(Seabirds -microorganisms - small fish)
	A - Rearrange to form a correct food chain.
	B - Which of these organisms considered as a producer
(2)	Rearrange these organisms to make a correct food chain:
	(a) Snake – Grass – Hawk – Rabbit
	(b) Parrotfish – Algae – Shark – Coral
	(c) sea star – algae – shark - clam

3	Cross out the odd word:
	(a)- Oil – Milk – book – Tea
	(b) - Air – Water vapor – Ice – Carbon dioxide

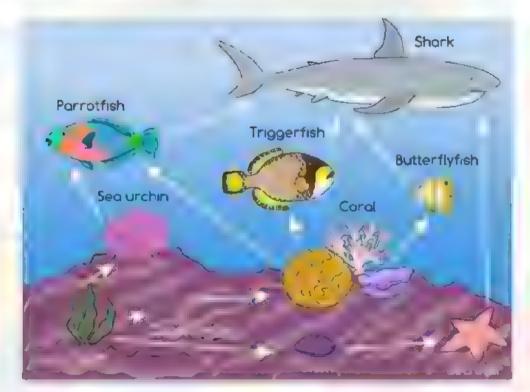


Classify the following materials in the following table into solids, liquids and gases:

{Desk - oil- juice -steam - salt - pencil - air -Book - Smoke - Milk - Gold - Human - Rock - Oxygen}

	solid	liquid	gas
Examples			

Study the following figure then answer the questions:



This figure represents..... ecosystem.

energy transfer when shark feed on _____

أنتهت الأسنلة مع أطيب الامنيات بالنجاح والتوفيق

Answers



EL MOTAMYEZ - SCIENCE Questions Bank NOVEMBER REVISION

	Question 01 C	tanswers		
	All of the following	cause destroying t	he ecosystem exce	pt
U	a gentle rain	b heavy rain	© drought	d pollution
	In marine food web	}S,	are considered pro	oducers.
(2)	(a) shark	b <u>algae</u>	© bacteria	d small fish
	Energy could be rea	cycled back into the	e ecosystem by the	中市電影響等中下中央子官等用
(3)	predators	(b) prey	© consumers	d decomposers
	All the following or	ganisms can make	their own food, ex	cept
4	(a) grass	(b) <u>rabbit</u>	© algae	d microorganisms
	is ar	area in the ocean	where the small pi	eces of coral are
(5)	a Coral reef	(b) Nursery	© Protectorate	d Garden
	If the grass is remove		•	
6	producers	b primary consumers	secondary consumers	d decomposers
	coral reefs get harn		consumers	
7	water temperature increase	ingest microplastic	fish take it as a shelter	(d) a.b
	Healthy habitats co	ntain		
8	(food	b water	© Shelter	d all the previous
	All the following ex	amples represent h	numan bad activitie	es, except
(9)	overfishing	b pollution	© floods	d cutting trees
	Food chain describe ecosystem	e the way of transfe	erringamono	g living organisms in
(10)	(consumers	b decomposers	© producer	d energy
	Which of the follow	ing from human a	ctivities which harr	n marine ecosystem
1	(a) Over fishing	leakage of oil into water	c throw wastes in water	d all the previous answers
	is one of the way	s done by coastal o	communities to red	luce plastic pollution.
(12)	Replacing wooden forks with plastic	Using grocery plastic bags	Using single- use plastics	d <u>Using cloth bags</u>



ones



	Which of the follow	ving represents the	COL	ect marine foo	od chain?
(13)	Algae→coral→s	shark->parrotfish	(b)	Algae→shark	→coral→parrotfish
	© Algae→shark→	parrotfish→coral	d	<u>Algae→coral-</u>	>parrotfish → shark
	When a predator fe	eds on a prey,	•••••	is transfe	erred between them
(14)	(a) water	b blood	©	motion	d energy
	live on th	ne top of mountain	cliff:	and feed on s	small fish
(15)	(a) Turtles	(b) Corals	©	algae	6 Seabird
	is/are cons	sidered as a top pre	edato	er	
(16)	1 tiger	(b) rabbit	©	shark	d a.c
(17)	In this food chain (A			*	
Legal Highligan	(a) pollution	b force	©	energy	d motion
	A How are solids	unique from other	r forn	ns of matter?	
(18)	Solids take the st container.	nape of any	b		lefinite size and shape.
	© Solids can be pou	ıred	(1)	Solids fill whate	ever container they are
(19)	All matter is ma	de of			
	® molecules	(b) proteins	©	cells	atoms
	_	ses different from	othe	r states of mat	ter?
20	Choose all that app Gases can be po		(h)	Gases have a	definite shape.
		oe of any container			
	they are put in.		•		nave a definite shape.
(21)	cubes? Choose two		аке	it possible to in	nake star-shaped ice
21)		shape of whatever	(b)	gases spread o	ut to fill any container
	© Solids have a def	inite shape.		Gases have no	o definite shape.
	A Matter is	7			
(22)	Anything in the	world.	(b)	anything that up space.	t has mass and takes
	© only water in di	fferent states	d	only solids.	
	A How can a mod	lel be helpful?			
23	Models give us st instructions about something.		(b)	Models make s than it does in	omething look better real life.
	it is in real life.		d		lp us see things that or too big to observe

					-
6	According to hardn	ess feathers are			
(49)	soft	(b) hard	© round	d square	
(28)	ice is an example of	state of wa	ater		
23	a solid	b gas	iquid e	d a,b	
60	has a def	inite size and no d	lefinite shape.		
40	(a) Air	(b) Ice	© <u>Water</u>	Wood	
_	We can measure ter	mperature by usin	g		
(27)	(a) thermometer	b scale	© meter	measuring tab	•
	All the following ex	amples represent	solid states, excep)t	
(28)	a oil	b book	(c) humans	ocks	
(a)	We can measure th	e weight using	*****		
(A)	measuring tape	b <u>scale</u>	© ruler	d meter	
60	During the eruption	n oflava o			
90	(a) star	(b) <u>volcano</u>	© wooden	d plastic piece	
(31)	Which matter has a	definite shape, de	efinite volume?		
(a)	(I) Water	b <u>lce</u>	Oil	Air	
	All the following fro	om properties of p	articles except	4104	
(32)	(a) they are tiny	they can be seen by the eye	they are in continuous motion	d they are identical	
	From the uses of me		***************************************		
33	they help us see a		they show us	what we could not see	1
	they are a great w		d all the previo	us .	
	When you blow a b				
(e)	gas particles bou inside of the balk	oon.	gas particles its round sha	exert a force that create pe .	01
	@ gas particles exer inflates the ballo		d all the previous	<u>ous</u>	
	Question 02	PUT (√) OR (×)			
1	Food webs show within ecosystem		nisms share food	resources	
(2)	Fungi - bacteria a		example of cons	sumers.	

Scavengers complete the decomposition process.



		د سعید 🗸
4	Food web made up of 2 food chains or more.	1
(5)	Scavengers come after decomposers in the food chain.	×
6	Decomposers include snails, slugs and crabs.	~
7 Nated Spinors	Decomposition process takes place on land and also underwater.	✓
(3)	If organisms disappear in the ecosystem, this may lead to the destroying the ecosystem.	✓
9	Top predator are consumers that exist at the top of food chains.	✓
10	Using wooden forks and cloth grocery bags increase the plastic pollution	×
11	Seabirds feed on small fish to get energy.	~
12	Using plastic bags is better than using cloth bags.	×
13	Gentle rain cause floods and damage the desert ecosystem	×
14	Microorganisms are producers in marine food chains	1
15	The human land activities on land have no effect on the marine ecosystem.	×
16	Algae is example of producers in desert ecosystems.	×
17	If coral reefs are destroyed, many marine food chains will be destroyed	✓
18	Energy is transferred from prey to predators in any ecosystem	n. 🗸
19	If producers disappear, consumer may die	V
20	Recovering shelter and bringing back food resources help animals to survive	✓
21	Coral reefs are considered as living organisms	V
22	Plastic pollution harm marine environments	1
23	Restoration processes always take a little time	×
24	Corals and sea urchin are examples of top predator in marine ecosystem	×
25	When water temperatures decrease coral bleaching happens	×
(26)	The particles in ice move more freely than in water.	×
27	A solid keeps its shape when it is moved from one place to another.	✓
28	When you blow a balloon, gas particles exert a force that inflates the balloon.	\checkmark
29	Water vapor is the solid state of water	30



		ب د سیت
30	Matter exists everywhere around us in nature.	1
31	All states of matter have the same properties	×
32	In gas state, the particles can keep their shape.	×
33	A liquid has a definite shape and volume.	*
34	Some matter is very small that we can't see as germs	1
35	Models help us see germs without a microscope	1
36	Particles of gas packed tightly with the others	×
37	Milk takes the shape of the container that it is poured in.	1
38	All matter made up of large moving particles	×
39	Water has no definite shape and size.	×
40	Matter exists in four states	×
41	Models are a great way to see many things at the right size.	×
42	A solar system model tells us about planets which is the biggest and which one is closest to earth	✓
43	To show the particles of a gas, we stick the buttons with a very long distance between them.	✓
44	We can see particles inside matter with the naked eye	×
43	To measure the taliness, we use scales	×
46	Some particles are so small that normal microscopes cannot detect them.	V
47	Models can be used to describe very small objects only	×
48	Ice melts to water by heating	1
49	The motion of particles in liquids is slower than that in solids.	×
50	Gases are not matter because they are invisible.	×
	Complete the following sentences using words between brackets	
1	Sea birds feed on small fish, they build their nest (in water – on the top of mountain cliffs)	
(2)	The main source of energy on the Earth, is	
	(the sun - consumers)	
3	of energy transfers between living organisms in a food web (100% - 10%)	
4		
-	IT THE CHIEF OF A CHIEF ON A THE CASE IN CREATE A CASE OF THE CHIEF	

If the climate is suitable, the population of a species will......

(decrease - increase)



6 Coral reefs (filter - pollute) the sea water to get their food When coral bleaching happen, coral reefs will 7 (die - grow healthy) 8 Water of lake (increase - decrease) during extreme hot climate 9 Habitat restoration projects (benefit - harm) the ecosystemis from human activity which cause habitat loss 10 (add building and roads - recycle plastic) **(II)** The marine food web started with...... (algae - parrotfish) 12 can make their own food (fish - microorganisms) 13 If all producers die, rabbits will..... (die -not be affected) 14 Gentle rain..... desert ecosystem (harm – improve) is one of the best ways to reduce plastic pollution in the (15) ocean. (Throwing plastic in seas - Recycling plastics) Habitat loss is one of the main causes of (16) (Increase the population-extinction)of water temperature causes the migration of (17) microorganisms to another habitat. (increasing – decreasing) (18) leakage of oil into the water (harm - protect) marine ecosystem (19) Pollution harms ecosystem and the number of living organisms (decrease - increase) When ice transfer from container (1) to different container (2), (20) the volume of ice will......[increase - doesn't change] Matter consists of identical in a state of motion. (21) (Particles – volume) The model which shows us all the planets is called (22)(solar system model - germs) In state, particles are very close to each other (23) (Solid - gas)is the process of preserving vegetables to be fresh. 24 (Melting -Freezing) 25 All matter is made up of particles (tiny - large) (26) Matter can change from one state to another. (True – false) In solid state, the particles

(Take the shape of their container - keep their shape)

(27)



- A globe is a model that shows you (28) (the shape of Earth - the shape of the solar system) The particles of state vibrate or move around its place (29) (liquid - solid) 30 In gas state particles move[slowly - quickly] Scientists can use to see individual particles inside (31) matter. (Magnifying lenses - electron microscopes)is a substance that can be poured in any container. (32) (Juice - Ice) model used to study very large things (33) (Germs - solar system) Anything that has mass and occupies space is called (34) (energy - matter) When ice cubes are exposed to heat, (35) (The particles move faster - the particles move slower) The movement of particles of water are slower than that of..... (36) (Wood-oxygen) Which of the following matter has a no definite volume and (37) shape? (Ice - Air)
- (measuring cup balance)

Question 04

Complete The Following Sentences

- 1 Food web is a model that describes <u>energy</u> flow between living organisms in an ecosystem.
- <u>Decomposition</u> process is considered as a nature's recycling factory.
- The sun is the source of **Energy light warm**.
- When number of secondary consumers decrease, the number of primary consumers <u>Increase</u> and the amount of producers <u>decrease</u>
- When water becomes warm, <u>microorganism</u> will move to cooler water.
- 6 Heavy rain causes <u>flooding</u> which destroys desert ecosystems.
- When water becomes too warm, corals will get rid of the <u>algae</u>, the coral turns into <u>white</u> colour in their tissues.





- Some human activities such as <u>overfishing</u> and <u>ocean pollution</u> may affect marine environments.
- Energy transfer between animals in a food web to help them do their activities and survive
- **Ecosystem** is an area that provides food, water and shelter to all living organisms which live in.
- Nursery is the area in the ocean where the small pieces of coral are nurtured.
- (12) Coral reefs provide marine organisms with <u>food shelter</u>
- 13 In food chain energy transfer from producer to consumer
- You can use a ruler to measure the length of your book
- Air oxygen and water vapor are examples of gaseous states.
- (16) Matter can exist in three states, that are solid liquid and gas.
- (17) Volume is amount of space occupied by matter
- Motion of particles in liquids is faster than that in solids.
- (19) Gases have no definite shape, no definite volume
- 20 Solids have definite shape, definite volume
- In gas state the particles have a lot of energy and move very freely.
- A model of a germ helps us to see its shape without using a Microscope which is used to magnify tiny objects.
- 23 Scientists use microscope to see tiny particles.
- Matter consists of very tiny Identical particles

Question 05

Write the scientific term for each of the following

It is a process through which humans make new products from waste materials instead of going into a landfill.

recycling process

They are organisms that break down the bodies of dead animals into small pieces.

scavengers

A natural process through which the nutrients found in dead organism's bodies return back to the ecosystem.

decomposition process

It is a process through which decomposers can recycle elements back into the soil.

Decomposition process

A group of living organisms that complete the food chain cycle.

Decomposers



	The Military of Marie	agema
6	A group of interconnected food chains.	food web
7	It is an area in the ocean where the small pieces of coral are nurtured until they can be moved back to the reefs.	The nursery
8	A human activity that affects marine food webs and cause decreasing the number of fish.	Over fishing
9	Small pieces of plastic are formed due to the falling of the sun UV rays on it.	Microplastics
10	It is the returning of the land and water back to how they were before harm was done.	Restoration project
11	Small organisms live in cold cannot be seen by eyes considered as a producer in marine food web.	microorganism
12	Flying living organisms that build their nests on the top of mountain cliffs and feed on small fish.	Sea birds
13	When water temperature rises up the coral reef turn completely into white.	<u>Coral</u> <u>bleaching</u>
14	They are consumers that exist at the top of food chains.	Top predator
15	It is the number of organisms of one type of species living in an area.	population
16	An example of producers in the marine ecosystem.	Green algaelori microorganism
17	Sun rays that break down plastic forming microplastic.	<u>UV rays</u>
18	living organisms that return the energy back into the ecosystem.	<u>Decomposers</u>
19	Any change in numbers of organisms of one type of species.	population change
20	They are consumers that feed on secondary consumers.	<u>tertiary</u> <u>consumers</u>
21	It is a model shows different feeding relationships among living organisms.	food web
22	The state of matter that keep its shape and its particles packed tightly.	Solid state
23	The state of matter in which particles have a lot of energy and move very freely.	gas state
24	A model of the whole world that is made in the shape of a large ball.	Globe
	The contract of the state of th	

The state of matter that has fixed shape and

volume.

25

Solid state



26	It is a copy that is similar to the real thing.	Model
27	A state of matter that can be poured in a container and take its shape.	<u>liquid</u>
28	A process in which ice changes into water.	Melting
29	A tool is used to measure the length of wall or room	Tap measure
30	A process in which water changes into ice.	Freezing
31)	State of matter which vibrate or move around their place	solid state
32	State of matter that has definite volume, no definite shape	<u>liquid state</u>
33	State of matter that has no definite shape and volume	gas state
34	The building unit of matter.	particles
35	It is a measure of the amount of matter.	mass
36	The state of matter in which the particles are packed in a neat arrangement	solid
(37)	A tool (device) used to see tiny particle such as a	Electron
_	germs The state of water when its temperature between	microscope
38	0°C and 100°C.	<u>liquid state</u>
39	The state of matter in which particles spread out and escape quickly	gas
40	The property of matter which is measured by the measuring cup.	<u>Volume</u>
41	A device that is used to measure the mass of apples.	Scale - Balance
42	It is anything that has mass and takes up space.	Matter
43	The property of matter which is measured by the balance.	Mass
44	A process that keeps vegetables fresh and ready to use for longer periods of time.	Freezing

Question 08

Give reason for each of the following

Scavengers come after decomposers in the food chain

Because scavengers feed on dead bodies by breaking them into small pieces.

Soil fertility depends on decomposers.



- 2 Because decomposer recycles nutrients back into the soil.
- 3 Decomposers have great importance
 Because it recycles nutrients back into the ecosystem increase
 soil fertility.
- Gentle rains cause a healthy ecosystem.

 Because gentle rain benefit, producers (let grass grow).
- 5 Fire forest has negative effect on living organisms
 Fire forest produce smoke which causes difficulty breathing

Microplastics have a bad effect on corals.

- 6 Corals filter sea water to get food, during eating it ingests microplastics which is toxic.
- Heavy rains cause an unhealthy ecosystem.

 Because heavy rain leads to floods.
- Plastics are so harmful for marine ecosystems.
 Because plastic is toxic and sharp.
- The nursery plays an important role in the recovery of coral reefs
 In nursery small pieces of corals are nurtured and produce
 healthy coral can grow reproduce to make a thriving reef
 again.
 - Coral reefs are important for marine organisms and human.
- Coral reef provide food and shelter for marine organisms, and important for tourism (fishing or diving).
- Air is matter.
- Because it has a mass and take a space.
- Book has definite shape and definite volume. because wood is solid.
- Wood is solid matter

 Because wood has definite shape, definite volume.
- Milk is considered as a liquid

 <u>Because it has a definite volume and no definite shape.</u>
- Gases can escape into space.

 Because gas has no definite shape and volume and its particles
- are not held together, move very quickly.

 Steam is gas state.
- Because it has no definite shape or volume.
- Water vapor has no definite shape or volume Because water vapor is gas.







- Solid particles can keep their shape.

 Because its particles are very, close to each other
- Chef put vegetables in a freezer or a refrigerator.

 To freeze it and to keep them fresh for longer time.

Ouestion 07

What happens if?

- If an organism in an ecosystem disappears

 The food web will be affected.
 - Absence of all decomposers from an ecosystem.
- Dead organisms will not be decomposed and their nutrients will not return back to the soil.
 - Grass disappears from an ecosystem.
- (Concerning the primary and secondary consumers).
 - Primary consumers will die quickly, secondary consumers will migrate
- When temperature of water contain microorganisms increases microorganisms and fish that feed on it will move away to a cooler water
- The number of one species increases a lot.
 (Concerning food resources).

 Food resources will disappear they will not find enough food to eat so they will die
- When the grass removed from ecosystem

 Primary consumers that feed on plants die quickly
- 7 Adding a road in the forest for moving cars.
 It causes habitat loss
- There are many top predators in a food web. (Concerning the number of prey).

Ecosystems get harmed because predators eat all prey

- The water becomes warm (Concerning corals and microorganisms).

 Coral get rid of algae, coral color turn to white, microorganisms will move to cool water
- Gentle rains fall on the desert.

 Grass will grow (healthy ecosystem)
- Sun UV rays fall on plastics for a period of time.

 microplastic will be formed



- Heavy rains fall on the desert lead to floods
 - The amount of plastics in water rises.
- Causes plastic pollution which harm the marine organisms because plastic is toxic and sharp
 - When small lakes exposed to extreme hot climate
- The water in lake will evaporate and the lake may completely disappear
- When ice cubes exposed to heat (concerning the state and the speed of particles)
 - It will melt Speed of particles will increase and change from solid state to liquid state
 - Boiling water for long time

 It will evaporate (change from liquid state to gas state)
- You squeeze a balloon too hard.

 The balloon pops and the gas particles escape into the air

Question 08 📹

choose from column (B) what suits it in column (A)



	(A)	(B)		
1	Photosynthesis process	a	It is a process through which humans make new products from waste materials.	1-c
2	Decomposition process	(b)	it is a process in which the nutrients are returned to the ecosystem.	2 - b
3	Recycling	C	it is a process through which producers can make their own food.	3-a



	(A)		(B)	
1	Decomposers	a	They are organisms that break down the bodies of dead animals into small pieces.	1 c
2	Scavengers	(b)	Made up of several interconnected food chains.	2 - a
3	Food web	©	A group of living organisms that complete the food chain cycle.	3-b





(A)		(B)		
		It means the increase or decrease		
Microorganisms	(a)	in the number of one species in	1 - 0	
		any area.	-	
2 Population Change	(b)	They are small plastic pieces are	2-	
	<u> </u>	even smaller than a grain of rice. is a producer in the marine food	-	
3 Microplastics	(c)	web.	3 -	
	-	Webi	1	
(A)		(B)		
(1) Habiana	(3)	Is one of the main causes of		
1 Habitat	(a)	extinction.	1 -	
2 nursery	(b)	the environment that the living	2-	
2 nursery		organism lives in.	2 '	
(3) habitat loss	(0)	It is an area in the ocean where the	3-	
The state 1033		small pieces of coral are nurtured.		
	•			
(A)		(B)		
1 Coral bleaching	(1)	can make their own food.	1	
2 Seabirds	(b)	means the coral turns into white.	2 -	
3 Microorganisms	0	may cause extinction of animals.	3 - 8	
4 Habitat Loss	(d)	dive to search for food.	4 -	
	(
(A)		(B)		
drought	a	desert ecosystem might get better.	1-0	
gentle rain in the desert,	(b)	lead to floods.	2-a	
3 heavy rain in the desert	©	ecosystem might destroy.	3-b	
	6			
(A)		(B)		
1 oxygen	a	solid state	1-c	
2 desk	b	liquid state	2-a	
3 juice		gas state	3-b	



	0	
(A)		(B)
matter		nt is similar to the real thing nderstand things we easily
2 temperature	it is anythin up space.	g that has a mass and takes
3 model		ties of matter that used to w hot or cold the matter is.
	0	
(A)		(B)
1 Thermometer	a is used to m	easure height
2 Balance	is used to m	easure temperature
3 Measuring tape	is used to m	easure mass
	10	
(A)		(B)
Matter	is a form of	energy.
2 Particles	b is gas state	
3 Sound	are in conti	nuous motion inside the
Oxygen	is anything occupies sp	that has mass and ace
	11	
(A)		(B)
1 Electron microscope	a is used to se	e the individual particles.
2 Globe	b shows us E	arth only.
3 Solar system model	shows us al	I the planets.
	12	
(A)		(B)
1 Ice		nape of container, can articles are not so near.
2 Water		ape, and particles are very
3 Water vapor		ive a fixed shape, takes up e of the container and the

particles are far from each other.

(A)		(B)		
1	1 22 22	(3)	solid state	1-b
2	2	(b)	liquid state	2-с
3	3	©	gas state	3-a

Question 09

Complete the following using words between brackets



(energy -pollution - sea birds - coral bleaching)

- When water temperatures rise Coral bleaching happens
- Throwing plastic wastes into a river causes water <u>pollution</u>
- When predator feed on prey , predator get energy from prey
- Sea birds dive deep down into the sea to feed on small fish

(Smoke - cold - pollution - die - ash)

- Microorganisms live in cold water.
- If the grass removed from ecosystem, primary consumers that feed on plants will die.
- pollution is the harm that happen to air, soil and water due to human bad activities.
- smoke and ash produced from burning forest cause pollution which harm animals .

(sun light-flood - small fish -producer - tertiary consumer)

- Heavy rain in the desert lead to Flood which harm ecosystem
- 2 Small fish feed on microorganisms floating on the surface of the sea.
- Microorganisms are considered as a producers_living organisms.
- Microplastic form from broken down of plastic by UV rays of Sun light
- the secondary consumer is considered as prey for tertiary







(Measuring tape - solid - mass - liquid)

- (1) In solid state the particles are packed tightly with the others
- 2 liquid is state of matter that can be poured and take the shape of container.
- Matter is anything that has mass and occupies space.
- You can use measuring tape to measure the length of a table.



(globe - gas - force - solar system - volcano model)

- When you blow a balloon, gas particles exert a force that inflates the balloon.
- The volume and shape change in gas_state.
- Solar system model shows us all the planets, while globe model shows us Earth only.
- Volcano model ooze liquid to model what happens during a real eruption.



(Solid – gas – electron microscope – earth)

- The particles inside a gas_matter move very freely.
- A globe is a model of earth.
- Solid matter has definite shape and volume.
- Scientists can use special microscopes called electron microscope to see individual particles.

Question 10

Answer the following questions

(1)

(Seabirds -microorganisms - smail fish)

A - Rearrange to form a correct food chain.

microorganisms -> small fish -> seabirds

B - Which of these organisms considered as a producer

microorganisms





- Rearrange these organisms to make a correct food chain:
 - (a) Snake Grass Hawk Rabbit Grass → rabbit → snake → hawk
 - (b) Parrotfish Algae Shark Coral

Algae → coral → parrotfish → shark

(c) sea star - algae - shark - clam

Algae → Clam → sea star → shark

Cross out the odd word:

(a)- Oil - Milk - book - Tea

book

(b) - Air - Water vapor - Ice - Carbon dioxide

ice

(c) - Water - Air - Light - Wood

Light

Classify the following materials in the following table into solids, liquids and gases:

{Desk - oil- juice -steam - salt - pencil - air -Book - Smoke - Milk - Gold - Human - Rock - Oxygen}

	solid	liquid	gas
Examples	desk, pencii,	oil – Juice - milk	steam, air,
	salt, book,		smoke,
	human, rock		oxygen

- Study the following figure then answer the questions:
- This figure represents marine ecosystem.
- algae is considered as a producer.
- energy transfer when shark feed on parrot fish.



أنتهت الأسئلة مع أطيب الامنيات بالنجاح والتوفيق



November Revision

***** (1) Write the scientific term:

Mr. Ahmed Elbasha

1)	They are consumers which feed on secondary consumers.	(h ,
2)	They are living organisms that include bacteria and fungi, which return energy back to the soil.	(m)
3)	It is the number of organisms of one type of species live in an area.	(Ca))
4)	They are organisms that are too small for people to see with only their eyes.	()
5)	It is a condition in which coral reefs turn completely into white	(, ,)
6)	They are rays coming from the Sun that break down plastic products into microplastics	(
7)	Small pieces of plastics in the size of rice grains and they cause harms to marine organisms.	(
8)	A process of returning a habitat back to its natural state before harm was done.	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
9)	Anything that has a mass and a volume.	()
10)	A property of matter by which we can distinguish between hot and cold objects	()
11)	The state of water after its freezing.	()
12)	The state of matter that has definite volume and shape.	(. , , .)
13)	The state of matter that is characterized by having a definite volume but it doesn't have a definite shape	()
14)	Substances that take the shape and the volume of their containers	()

15)	The state of matter that has a lot of spaces between its particles	()
16)	The tool used to measure the length of a wall.	()
17)	A state of matter that has a fixed shape.	()
18)	A device used to examine objects that are too small to be seen with the naked eye.	()
19)	A state of matter that its particles vibrate around their place.	(u,
20)	A state of matter that its particles move faster than solids and have a definite volume.	(many)
21)	The state of water after its heating for high temperatures	(.)
22)	A model of the whole world that is made in the shape of a large ball.	(
23)	A copy that is similar to a real thing which we cannot observe with our eyes.	()

2

★(2) Complete the following:

1.	If producers increase in an ecosystem, the number of primary consumers will
2.	Heavy rain causes which destroys desert ecosystems.
3.	Predators of living organisms may be for other living organisms.
4.	Secondary consumers feed on consumers.
5.	All energy in all living organisms return back to the environment by the help of
	organisms.
6.	States of matter are and
7.	Iron and gold are examples of state of matter.
8.	According to temperature, matter can be classified into
	objects.
9.	The state of an ice cube is , while the state of the air we breathe is
10	.States of matter are and gases.
11	.In the matter, the volume and shape don't change.
12	.Water is a matter in state while water vapor is a matter in state.
13	.Matter that takes the shape of its container, but its volume cannot be changed is
14	The of a pen can be measured by using a ruler.
15	.Particles of matter are very close to each other.
16	Any matter is made up of millions of tiny that we cannot see with our eyes.
17	.Particles of
18	.Water evaporates when it is exposed to a temperature.
19	.We can use ping pong balls to describe the movement of of the three states
q	of matter.
20	.To describe the particles of a matter in state by modeling balls, we should
	nut the balls nacked together.

#(3) Choose the right answer:

1.	The Sun provides the	Earth with	******		
	a. light only.	b. warm only	c. lig	ht a nd warm .	d. light and sound.
2.	On extreme hot climat	e, the water of a	lake	************	
	a. increases due to evap	ooration.	b de	creases due to evap	oration.
	c. changes into ice.		d. ha	s a lower temperatu	re.
3.	All the following facto	rs pollute the wat	ter, exce	pt	
	a. sunlight.	b. anımals wast	ies.	c. human wastes.	d, plastic garbage.
4.	All the following are a	ffected by water	pollutio	n, except	
	a. the soil.	b. the Sun.		c. the animals.	d. the plants.
5.	Overfishing and throw	ving plastic garba	ge in th	e sea affect the sur	vival of directly.
	a. desert organisms	b marine organ	isms	e, rainforest organ	oisms d rodents
6.	When there is a gentle	rain in a desert	ecosyste	m, this ecosystem	may be
	a. harmed.	b. improved.	1	c. destroyed.	d collapsed.
7.	All the following are to	op predators, exc	ept		
	a. hawks.	b. tigers.	0	c butterflyfish	d lions.
8.	If there is a tertiary co	nsumer in a food	ehain,	this means that the	ere is
	a. a primary consumer	only			
	b. a secondary consum	ar only			
	c. a primary and a seco	ndary consumer.			
	d. neither primary nor:	secondary consum	iers.		
9.	In a food chain, the en	ergy transfer	***********		
	a. from a predator to a	prey.	b. fro	om a prey to a preda	ator.
4	c. from a predator to a	producer.	d. fro	om a consumer to a	producer.
10	.lf all grasses were rem	oved completely	from an	ecosystem, rabbit	ts in this ecosystem
	a. increase. b. de	ecrease.	c die	3.	d. not be affected
11	.It is better for a preda	tor in a food web	, to have	2	
	a. only one type of dec	omposers	b. mo	ore than one type of	decomposers.
	c. only one type of pre			ore than one type of	-
	4	Mr.Ahmed E	lBasha		Mob 01153233911

12.Pollutants produced fr	om a forest fire harn	n all the following, excep	t
a. air.	b. respiratory system	n. c grasses	d sunlight.
13.As a result of pollution	in an ecosystem, the	number of living organ	isms
a. decreases.	b. increases.	c. doesn't change.	d. 1s doubled.
14.Any increase or decrea	se in the number of	organisms of one type of	species is known
as			
a. an ecosystem.		b. adaptation.	
c. a climate change.		d. a population chan	ge,
15.Healthy marine enviro	nment is important f	for survival of	
a. humans.	b. lions.	c. fish.	d. deer.
16. When the marine habit	tats are destroyed, th	ne number of living orga	nisms in their
food webs is			
a. increased.	b. decreased.	« c. not changed.	d. doubled.
17. When water temperatu	re increases, algae l	eave tissues of , so they	become bleached.
a. seabirds	b coral reefs	c. clam	d sharks
18.Plastic waste materials	cause all the followi	ng to the marine environ	ıment, except
a. breakdown in food w	ebs.	b. pollution of water	
c. increasing of populat	ion	d decreasing of pop	ulation.
19. Coral reefs are conside	red as resources of .	*141*171+11>*4**	
a. food only.		b. shelter only.	
c. food and shelter	7	d. food and pollution	1
20. Which of the following	human activities do	n't harm a marine ecosy	stem ?
a. Throwing plastic pro-	ducts in water.		
b Leakage of oil into w	rater.		
c. Overfishing and dam	aging of coral reefs		
d. Recycling of plastic	products.		
21.Habitat restoration pro	jects allow scientists	s to that occur	r to an ecosystem.
a. increase harms		b. decrease harms	
c. keep harms		d. increase damages	

5 Mr.Ahmed ElBasha Mob 01153233911

22. The area in which the	scientists take ca	are of small pieces of coral	until they grow up
is known as			
a. food chain.	b. food web.	c grassland.	d. nursery.
23."Zero plastics" project the using of plastic pr		in Egyptian coastal comm	unities, means that
a. 0%	b. 10%	c. 90%	d. 100%
24.Matter be can be foun	nd inst	ates.	() I
a. 2	b. 3	c. 6	4.7
25.Water can be found in	ı a solid state in t	the form of	13
a. ice.	b steam.	c sea water.	d boiling water.
26.An example of a gas is	S		
a. chocolate.	b. rock.	c. pencil.	d. oxygen.
27. The amount of space	that a matter tak	es up is called " v	
a. volume.	b mass.	c. weight.	d. area.
28.All of these substance	s are liquids, exc	ept	
a. oil.	b. milk.	(c. stope.	d. vinegar.
29.Liquids have definite	, but 1	heirare not def	inite.
a. volume-shape	A	b. color-volume	
c. shape – volume	4	d. color-shape	
30.Both and	are sol	ids as they have definite sl	nape and volume.
a. wood-oxygen		b. milk-iron	
c. wood-iron	3	d. milk-oxygen	
31.Bothand	take th	e shape of their container	•
a. air-plasti		b. water-air	
c. wood-air		d. water-plastic	
32.Gases have	shape and	volume.	
a. definite-definite		b. no definite-no definit	te
c. definite-no definite		d. no definite-definite	
33.Particles of	. are very close to	each other.	
a. gold 6	b steam Mr.Ahmed l	e milk ElBasha	d. oxygen Mob 01153233911

34.To measure the len	gth of a table, we can u	se a	
a. thermometer.		b balance scale.	
c. cylinder.		d. measuring tape.	
35.The shape of	is fixed as it is a	matter.	
a. gold- liquid		b. water- liquid	- 1
c. air-gas		d. gold-solid	
36.Oil takes the	of its container.		A F . 9
a. volume	b. shape	c. color	d mass
37.Particles of	vibrate around thei	r place.	
a. glass	b. air	c. oxygen	d. water
38.By changing the	of a matter, its	state may change.	.9
a. mass	b. volume	cacolor d	temperature
39.If water is exposed	to high temperature, its	s particles will move	and the
water may change i	into		
a. faster-ice.		b faster-water vapor	
c. slower-ice.	Artico.	d. slower-water vapo	or.
40.We can use a mode	l to study very large thi	ngs such as	
a. solar system.	b. germs. 🤝	e microbes.	d, viruses
41.By blowing up a ba	lloon		
a. its volume decrea	ses	b. its volume increas	ses.
c. its color changes.	7	d. its mass doesn't ch	nange.
42.To examine the stri	ecture of tiny particles	of a matter, we can use	
a. microscopes.	b. balances.	c. thermometers.	d rulers.
43. The model of the E	arth shows how much o	f its surface is covered w	th
a gasoline.	b. water.	c milk	d animals
44.We can see all plan	ets of the sys	stem including the Earth	by using a model.
a. solar	b. digestive	c. respiratory	d. muscular

#(4) Put (√) or (X)		
1. If producers removed from an ecosystem, consumers will need to move away.	()
2. Overfishing is one of the climate changes that affects the marine ecosystem.	()
3. It is better to recycle the waste materials than throwing them in rivers and seas.	()
4. Food webs don't change if their surrounding environments get changed.	()
5. If there is a heavy rain in a desert ecosystem, it will be harmed.	4)
6. Top predators are decomposers that present at the top of food chains.	6	100
7. Ecosystem can be effected by climate changes, pollution and human activities.	()
8. Most of living organisms are prey for some animals and also predators for others	at the	e
same time.	()
9. The Sun produces energy that decomposers use to make their food.	()
10. The soil fertility depends on decomposers.	()
11. Any food chain can be formed of producers only	()
12.A desert food chain doesn't contain any type of fish or sharks.	()
13.If the climate change is unsuitable, the population of a species decreases	()
14.In an ecosystem, all species depend on other species for survival.	()
15. Seabirds eat small fish that swim near the water surface.	()
16. Healthy habitats provide living organisms with clean air, healthy food and water.	()
17. Healthy coral reefs have no benefit to fish but they are important for tourism.	()
18.Living organisms in seas and oceans cannot differentiate between real food and pl	lastic	;
waste materials.	()
19.UV rays coming from the Sun, break down plastic wastes into microplastics.	()
20. The polluted water has a positive effect on coral reefs.	()
21.If coral reefs are destroyed, many marine food chains will be destroyed.	()
22. Coral reefs are considered as a suitable habitat for sharks.	()
23. People near the coastal areas must replace plastic bags with cloth one	()
24.Ice is considered the solid state of matter.	()
25.Matter never changes from one form to another.	-(<u> </u>

Science	First Term 2022/2023	Gr	ade 5
26. Volume is the space	e that is taken up by a matter	()
27.All objects can be s	seen with the naked eye.	()
28.Liquids don't take t	he shape of the container that they are placed in.	()
29.Both gold and milk	have definite shape.	()
30.Gases keep their sh	ape and volume whatever the container changes	()
31.On transferring wat	ter from one pot to another, its volume will change.		
32.Liquid particles mo	ove freely more than solid particles	-	1
33.Gases don't have a	definite shape or volume.	()
34. The speed of water	vapor particles is slower than that of water particles.	()
35.Germs are very larg	ge organisms that can be seen with the naked eye	()
36.Air particles are vis	sible as they are very large particles	()
37.Solar system contar	ins only one planet which is the Earth.	()
38.A model of an airpl	ane shows us how it flies up into the air	()

9 Mr.Ahmed ElBasha Mob 01153233911

#(5) Choose from column (B) what suits it in column (A):

0	
(A)	(B)
1. There is a heavy rain in a desert.	a. this ecosystem may be improved due to melting of snow, where plant resources and animals shelters appear again.
2. There is a gentle ram in a ramforest.	b. this ecosystem may be harmed due to the decrease of the amount of rain, where plant resources and animals shelters may be affected.
	c. this ecosystem may be destroyed due to flooding, where plant resources and animals shelters removed away

1- 2-

2

(A)	(B)//
1. Water	a. is not a matter.
2. Sand	b. is a figure matter.
3. Air	cris a gas matter.
	d. is a solid matter.

1- 2- 3-

3

(A)	(B)	
1. Milk	a. its particles are packed tightly.	
2. Air	b. its particles have medium energy.	
3. Gold	c. its particles move very freely.	
	d. its particles don't move at all.	

1- 2- 3- 4-

(6) TRY TO ANSWER:

Study the following figures, then put (v) or (X)







Figure (A)

Figure (B)

Figure (C)

- All living organisms in figures (A) and (B) can make their own food by photosynthesis process.
- Some marine organisms are present in figure (B).
- 3. Top predators are found only in figure (A).
- 4. All animals in figure (A) can find a prey in figure (B), except shark. (
- 5. To form a food chain, you have to rearrange the previous figures as follows :

Figure (C) then Figure (B) then Figure (A) ((
----------------------------------------------	---	--

2

Complete the following sentences using these words:

(Microorganisms - smoke - increase - forests)

- 1. Fire of cause pollution that affects the survival of living organisms.
- 2. Forest fire produces that causes difficulty breathing for animals.
- 4. Small fish feed on the surface of the sea.

3

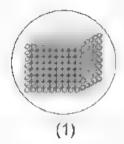
Complete the following sentences using these words:

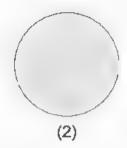
(Extinction - overfishing - toxic - predator)

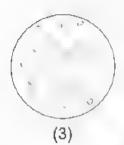
- 1. The human activity that directly decreases the marine population is
- 2. Habitat loss is not only decrease marine population but also it is one of the main causes of
- 3. When a sea turtle eats a jelly fish, this means that the sea turtle is a living organism.
- **4.** Plastic waste materials are very harmful to marine organisms, because they are and sharp.

4

Study the following figures that represent particles of three states of matter, then put (\vee) or (X):





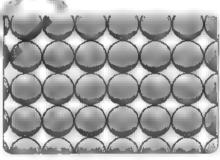


- 1. Figure (1) represents solid matter.
- 2. Figure (2) represents liquid matter.
- By increasing the spaces between the particles of figure (2), this matter may change into solid state.
- 4. Particles of figure (1) have more energy than particles of figure (3).

5

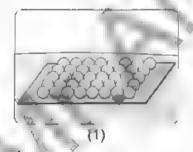
Look at the opposite model that shows the particles of a substance, then complete the following sentences:

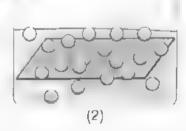
- 1. This model represent a substance in ... state.

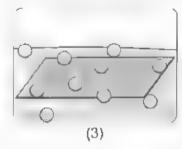


Ġ.

The following figures show three models of particles of some matter related to our planet Earth. Observe the figures carefully, then complete the following sentences:







- Beads of figure surface.
- could represent the particles of a rock on the Earth's
- 2. Beads of figure could represent the particles of river water on the Earth.
- 3. Beads of figure . could represent the particles of air that surrounds the Earth.
- 4. By heating the particles of figure (2), they will be similar to that of figure

Model Answer

(1) Write the scientific term:

1.	Tertiary consumer
2.	Decomposer

- 3. Population
- 4. Microorganism
- 5. Coral bleaching
- 6. Ultraviolet rays
- 7. Microplastic
- 8. Habitat restoration

- 9. Matter
- 10. Temperature
- 11. Solid
- 12. Solid
- 13. Liquid
- 14. Gas
- 15. Gas
- 16. Measuring tape

- 17. Solid
- 18. Microscope
- 19. Solid
- 20. Liquid
- 21. Gas
- 22. Globe
- 23. Model

★(2) Complete the following:

- 1. Increase
- Floods
- 3. Prey
- 4. Primary
- 5. Decomposer
- 6. Solid, liquid and gas
- 7. Solid

- 8. Cold hot
- 9. Solid gas
- 10. Solid, liquid
- 11. Solid
- 12. Liquid gas
- 13. Liquid
- 14. Length

- 15. Solid®
- 16. Particles
- 17. Solid
- 18. High
- 19. Particles
- 20. Solid

★(3) Choose the right answer:

1. C 2. B 3. A 4. B 5. B

6. B

7. C

8. C

10. C 11. D 12, D

9. B

- 13. A 14. D
- 15. C 16, B
- 17. B. 18, C
- 19. C 20. D
- 21. 3 22. D
- 23. A 24. B
- 26. D 27. A 28. C

25. A

- 29. A 30. C
- **3**1. B 32. B
- 33. A 34. D
- 35. D **36.** B
- 37. A 38. D
- **39**. B

41. B 42. A

- 43. B 44. A
- 40. A

*****(4) Put (√) or (X)

- 1. (1) (Xe) 3. (X) 4. VX
 - 8. (V)
 - 9. (X) **10.** (√) 11.(X) **12.** $(\sqrt{\ })$ **13.** (√) 14. $(\sqrt{\ })$
- **15.** (√) **16.** (√) 17. (X)

20. (X)

21. (√)

- 22, (X) **18.** (√) **19.** (√)
 - **23.** (√) **24.** (√) 25. (X) **26.** (√) 27. (X) 28. (X)
- 29. (X) 30. (X) 31. (X) **32.** (√)
- 36, (X) 37. (X) 38, (√)
- 33. (√) 34. (X)
- 35. (X)

#(5) Choose from column (B) what suits it in column (A):

1.c 2.b

2

1

:

1.b 2.d 3.c

1.b 2.c 3.A

(6) TRY TO ANSWER:

1. (X)

2. (X)

3. (Y)

4. (Y) 5. (Y)

1. Forests

2. Smoke

3. Increase

4. Microorganism

3
1. Overfishing

2. Extinction

3. Predator

4. Toxic

Œ.

1. $(\sqrt{\ })$ 2. $(\sqrt{\ })$

3. (X)

4. (X)

5

1. Solid

2. Increase

1 71

(1)

6. (4)

4 . 85

November revision G.5

<u>2022-2023</u>

Q.1: choose the correct word:

1.	Decomposers are found at the of the food chain.	(beginning - end)
2.	are decomposing organisms.	(Plants-Fungi)
3.	Julius produce waste that is rich in	(nutrients - glucose)
4.	Producers obtain energy directly from	(the sun - air)
5.	are organisms that do not feed on other organisms.	(Consumers - Producers)
6.	is transmitted from prey to predator in the food chain.(C	Only energy - Food and energy
7.	Snakes are considered prey for (rat - hawks)	
N.	is/are an example of scavenger organisms.	(Eagles - Bacteria)
9.	Flies in the house are considered creatures.	decomposer - scavengers)
10.	When bacteria disappear from a stable ecosystem, it will be	e(stable- disturbed)
11.	Plant seeds that are spread by wind areseeds.	(sticky - light)
12.	When the producer organisms disappear from an environr	nent, the
	consuming organisms will (migrate to other	er places - stay in its place)
13.	When there are large numbers of one species of living orga	anism, the food
	resources after a period.	(increase - disappear)
14.	When there are large numbers of one species of living orga	anism in
	ecosystem, it	iger - may die of hunger)
15.	If there is gentle rain in the desert, the desert ecosystem ma	y (improve - be damaged)
16.	Producers and consumers die in the desert due to	dienthienshien A
	(the occurrence of drought - the increase	in the number of predators)
17.	Seabirds dive into the depths of the sea to (build their	nests - search for small fish)
18.	Microorganisms are found at the of marine fo	od chain.
		(beginning - end)
19.	Microorganisms move to another environment when the w	ater becomes
		(cold - warm)

20.). Small fish move to a new habitat upon the death of (microorganisms - seabirds				
21.	1. Plastic products are broken into small pieces due to ultraviolet rays				
	emitted from	(sun - moon)			
22.	Plastic particles has nutritional value of marine organi	sms such as			
	whales and turtles.	(large - zero (non))			
23.	Ice cubes that are placed in water are in a state.	(solid - liquid)			
24.	Solids and liquids both have a (definite v	volume - definite shape)			
25.	The air we breathe is an example of astate.				
	(solid - liqu	id - gaseous - frozen)			
26.	Particles are in a state.	(static - motion)			
27.	The determines the state of matter.				
	(number of particles - movement of particles)				
28.	Gases occupyspace than solids.	(more - less)			
29.	Gas particles have avolume.	(large - small)			
30.	Water freezes into	(ice - water vapor)			
31.	Matter consists of	(waves - particles)			
32.	The walls and tables in your classroom are in astate.	(gaseous - solid)			
33.	has particles that are close to each other.	(Oxygen - Iron)			
34.	A bicycle tire is a	(solid - gas)			
35.	Solid particles areeach other.	(close to - far from)			
36.	Solid particles allow matter to				
	(keep its shape - take the shape of its container)				
37.	Liquid particles allow matter to				
	(keep its shape - take the sl	hape of its container)			
38.	Particles in the liquid state (mov	ve very fast - are static)			
39.	. Particles in the gaseous state (move very fast - don't move from place to another)				
40.	. Earth can be seen from a (sailing ship - space satellite)				
41.	is a process that preserves vegetables and keeps them fresh.				
	(Eva	poration - Freezing)			

Q.2: Complete the following statements:

1. primary consumers feed on 2. Earthworms and Julius are Examples of 3. Julius feed on The snail is one of thecreatures, while the crab is one of the 4. The seeds of plants that are scattered by the wind are..... to move for long distances. The disappearance of...... organisms affects all living things in the food web. 6. 7. the ecosystem may..........., If there is heavy rain in the desert, If drought occurs, and all the grass in the desert dies, so the food web may 8. Energy is transferred fromto producers until reaches toprocess 10. project is an example of the restoration of natural habitats that take place in the Arabian Gulf. 11.is important for the needs of living organisms to survive. 12. phenomenon causes damages coral reefs and causes their extinction. 13. Some matters can be hard, such as and some matters are soft, such as 14. and are both characteristics of matter 15. matter has definite shape. 16. state can be compressed 17. Water vapor is an example of a.....state, while snow is an example of a....state 18. Solid particles are linked together by a attraction force. 19. Liquids and gases both haveshapes

Q.3: Correct the underline words:

- Decomposers are located at the center of the food chain.
- 2. Consumer organisms help in soil fertility.
- 3. snake is considered a prey when it feeds on the rat,.
- 4. Bread mold fungi are producer organisms.
- The lion is considered one of the producers.

- 6. Decomposers are organisms that get their food from producer organisms.
- 7. The lion is one of the <u>decomposing</u> creatures.
- 8 The seeds of <u>light</u> and coarse plants stick to human clothes without being noticed
- 9. When one type of living organism increases too much, the food resource increases.
- 10. The marine environment on the island of Palau shall be protected by establishing well-designed <u>nurseries</u> in its waters.
- 11. Organisms in the desert food web are damaged when the numbers of predators are stable.
- 12. Energy is recycled back into the ecosystem by consuming organisms.
- 13. Seabirds build their nests on the water surface
- 14. Microorganisms in the marine environment are considered primary consumers.
- 15.Sea birds feed on sharks.
- 16.Bleaching of coral reefs occurs when the water temperature decrease.
- 17. Plastic materials analysis under the effect of the moon.
- 18. Corals get food in turbid waters.
- 19. Gas particles are close to each other.
- 20. Particles of solid matter move quickly.
- 21. Particles of liquid matter move freely.
- 22. The attraction force between solid particles is very weak
- 23. Particles of a solid state are very far apart.
- 24. Particles in a liquid state move much faster than particles in a gaseous state.
- 25. Particles in a gaseous state do not usually move from one place to another.
- 26.Gas particles move slowly.
- 27. Water vapour is an example of matter in a solid state.
- 28. The three states of water are solid, liquid, and <u>dew</u>

Q.4: Put (V) or (X)

- Decomposers organisms break food into smaller pieces. () 1. Waste can be reduced through recycling. () 2, 3. Sweating organisms feed on dead organisms after cutting them into small pieces. () The disappearance of producers does not affect consuming organisms.() 4. The food web contains all the components that make up the food chain. .(). 5. б. When pollution occurs on land, it does not affect marine organisms. .() The quality of the marine environment on the island of Palau can be closely monitored by the 7. management of land activeities. .(). 8. some organisms die, When any change occurs in the ecosystem.() 9. The shark feeds on the butterfly fish, which feeds on coral. () Energy remains in the system as it, despite its transfer between living organisms. () 11. When all rabbits die of hunger, the rest of the living organisms within the food web are affected. () 12. Air pollution with smoke may destroy the food web. () 13. Energy is transmitted from microorganisms to small fish and from there to sea birds. () 14. Human activity may affect the weather and non-living things in the ecosystem. () a limited number of living organisms Lives inside and around the coral reefs. Sometimes coral reefs are the shelter to many other coral reefs.() Plastic particles has a size of a grain of rice. () 18. Plastic particles may cause poisoning of marine organisms. () 19. The sea turtle eats a lot of plastic, thinking it is a jellyfish. () 20. When coral reefs are polluted, the entire ecosystem may destroyed. 21. rain fall one of the causes of loss of habitat () 22. Plastic is a suitable food for many marine organisms.() 23. Studying the properties of matter is unimportant. ()
- 24. Human bodies are considered matter. ()
- 25. Matter can be multi-colored or colorless. ()
- 26. Matter can be changed from one state to another. ()
- 27. Two objects can occupy the same space at the same time. ()

قدم مجانا من قناة مستر ساينس على اليوتيوب مع الشرح الكامل لكل المنهج	لل المنهج	الكامل لك	الشرح	البوتيوب مع	بابنس على	قناة مستر س	نم مجانا من	مقد
----------------------------------------------------------------------	-----------	-----------	-------	-------------	-----------	-------------	-------------	-----

- 28. Liquids keep their shape unless acted upon by an external force. ()
- 29. Matter occupies space. ()
- 30. Pencils are made of micro particles. ()
- 31. Gas particles are coherent. ()
- 32. The spaces between liquid particles differ from the spaces between gaseous particles. ()

Q5: Choose the correct answer from the brackets:

1 - The food web in the ecosystem is not affected when

(Change in the environment - disappearance of producers - increase in the number of a species of living organisms - adaptation of organisms to the environment)

2- The following reasons destroy the desert ecosystem except

(Light rain - heavy rain - drought and death of all grass - increase number of predators)

3- Seabirds search for food.....

(At the top of the mountain cliffs - by diving in the depths of the sea - by floating on the surface of the sea - in warm water)

4- When water is very warm.....

(Algae close to coral reefs – the coral turns completely white – the reef is dying – the reef expels algae from its tissues)

5- Coral bleaching affects.....

(coral reef population - fish population - human population - all of the above)

6- All of the following are products of the removal of huge quantities of plants except ...

(Erosion of river banks - arrival of floods - distribution of ecosystem - stability of ecosystem)

7- From the following food web, the amount of squirrels decreases at

(Decreasing the number of chickens - increasing the number of rabbits - increasing the number of foxes -increase the amount of grass)

مقدم مجانا من ثناة مستر ساينس على اليوتيوب مع الشرح الكامل لكل المنهح 8 - During the food chain,transfer between living organisms.
(blood - matter - energy - heat)
9 food chain begins with a producer organism.
(On land - in the desert environment - in the aquatic environment - all of the above)
10 - The arrows in the food chain indicate
(matter transfer direction - Recycling direction - Energy transfer direction - Increasing the amount of energy)
11- Sea turtles are considered to be(Producing - consuming - decomposing - extinct) organism.
12- Coral bleaching occurs at
(high temperature - low temperature - constant temperature - freezing)
13- All of the following are solid except:
A) Salt B) Wood C) Iron D) Benzene
14 is a liquid substance.
A) Salt B) Wood C) Iron D) Benzene
15 is the state of water when it freezes.
A) Solid B) Liquid C) Gas D)Vapor
16is/are an example of solid matter.
A) Clouds B) Books C) Small ponds D) Mineral water
17is an example of liquid matter.
A) Ice cream B) Orange juice
C) Carbonated water D) Molten ice
18- The energy of solid particles is the energy of liquid particles.
A) greater than B) less than C) equal to
19 particles move freely
A) Solid B) Liquid C) Gaseous D) Frozen

مع الشرح الكامل لكل المنهج	على البوتيوب	مستر ساينس	مجانا من قناة ،	قدم
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20matter has particles with large spaces and high kinetic energy
A) Solid B) Liquid C) Gaseous D) Frozen
21 – Solid particles A)are coherent B) are free to move c) are incoherent d) take the shape of their container
22 - Particles in the liquid state
23 - Particles in the gaseous state
A) are coherent B) are free C) are incoherent D) keep their shape from changing
24 particles are in an order and pattern that keeps their shape from changing
A) Gaseous B) Liquid C) Solid D) Vapour
25 has particles that are interconnected and close to each other
A- Water B- Milk c) Water vapour D) Wood
Q6: Write the scientific term:
1 - The main food source for many seabirds. ()
2- Decrease or increase the number of a species of living organism in environment. (
3- A phenomenon that occurs to coral reefs when the water temperature rises. (
4 - An area in the ocean where small of coral reefs are cared for.
5- Pollution occurs due to the throwing of plastic waste in sea water. (
6 - Anything that has mass and occupies space. ()
7- A substance with particles that are interconnected and close to each other. (
8- A substance with particles that maintain their cohesion. (
9 - A substance with particles that move at very high speeds. (

Q7: Give reasons for each of the following:				
1 - The importance of natural habitats for living organisms.				
2 - Human interference in the environment is one of the reasons for changing the natural habitat.				
4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.				
3- Ice is a solid state				

4- Perfume is a gaseous state				

5- you cant break a piece of iron with your hand				
Q8: What happens when:				
1 - High amounts of plastic materials in the marine environment.				

2 - The disappearance of coral reefs.				
3- Removing huge amounts of plants.				
111111111111111111111111111111111111111				
4- you open a bottle of perfume				

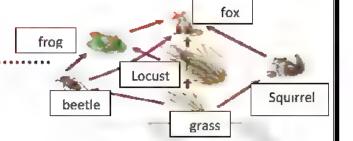
5-you put amount of water in a new container differ in shape than the first one				

6-you put a cube of wood in a new container differ in shape than the first one				

10				

Q9: From the opposite food web, complete:

- 1- The number of locusts decreases when
- 2- When a squirrel dies, a..... is looking for an alternative source of food



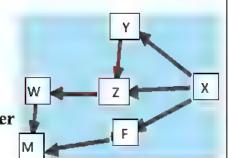
- 3- the death of causes the death of rest of the organisms in the food chain
- 4- is considered a producer

Q10: From the following food web, complete:

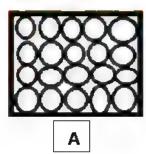
- 1- The only producer organism is
- 2 The object (Z) related to the object (X) is

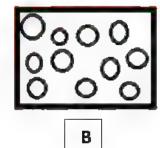
considered a..... consumer,

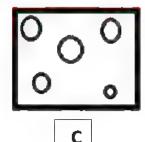
and related to the object (Y) is considered a..... consumer



Q11: Which of the following pictures show the shape of particles in a gaseous substance?







Q 12: Look at the rising water vapor in the opposite figure, then complete:

1 – State:	
3 – shape :	
4 – volume:	
6 - The distance between the particles:	•••
7 - Particle cohesion:	
8 - Particle movement:	
9- Mention the state of container?	



Answers

Q.1

1- End	8-Eagles	15-Improve	22-zero (non)	29-large	36-keep its shape
2- Fungi	9-Scavengers	16-The occurrence of drought	23-Solid	30 Ice	37-take the shape of its container
3- Nutrients	10-Disturbed	17-Search for small fish	24-difinite volume	31-Particles	38-move very fast
4- Sun	11-Light	18-Beginning	25-Gaseous	32-Solid	39-moving very fast
5- Producer	12-migrate to other places	19-warm	26-motion	33-Oxygen	40-Space satellite
6-food and Energy	13- disappear	20- Microorganisms	27- movement of Particle	34-Solid	41-Freezing
7- hawks	14- may die of hunger	21-Sun	28-more	35-close to	

Q.2Complete

- 1. Plants
- 2. decomposers
- 3. Remains of dead plants
- 4. scavengers decomposers
- 5. Light
- 6. Producers
- 7. destroyed
- 8. destroyed
- 9. Producers, decomposition
- 10.restoration
- 11.Natural habitats
- 12. Coral reef bleaching
- 13. Stone, feathers

- 14. Occupies space has mass
- 15. Solid
- 16.Gaseous
- 17. gaseous, solid
- 18. attraction
- 19. indefinite

Q.3 Correct:

- 1. End
- 2. decomposers
- 3. Predator
- 4. decomposer
- 5. Consumer
- 6. Primary consumers
- 7. Fungi
- 8. Sticky
- 9. decrease
- 10. Marine reserves
- 11.Increase
- 12.decomposer
- 13. The top of the mountain cliffs
- 14. Producers
- 15.Small fish
- 16.increase
- 17.Sunrays
- 18. clear
- 19.Solid
- 20.Slowly
- 21. gas
- 22.Interconnected
- 23. Very close to each other
- 24. Solid
- 25.Solid
- 26.Completely freely (very quickly)
- 27. gas
- 28. gas

Q4

1-×	17-√
2-√	18-√
3-√	19-√
4-x	20-√
5-√	21-√
-6 ×	22-×
7-√	23-×
8-√	24-√
9-√	25-√
10-√	26-√
11-√	27-×
12-√	28-×
13-√	29-√
14-√	30-√
15-√	31-×
16-√	32√

Q.5 Choose:

- 1 Adaptation of objects to the environment
- 2 Light rain
- 3 Diving in the depth of sea
- 4 the coral turns completely white
- 5 All of the above
- 6 Stability of the ecosystem
- 7 Increasing the number of foxes
- 8 Energy
- 9 All of the above
- 10 Energy Transfer Direction
- 11. Consuming
- 12 High temperature

- 13 Benzene 14 – Gasoline 15 –Solid 16 – Books
- 17 Ice cream
- 18 Less than
- 19 Gaseous
- 20 Gaseous
- 21 are coherent
- 22 take the shape of their container
- 23 are incoherent
- 24 Solid
- 25 Wood

Q6:

- 1 Small fish
- 2. population
- 3 bleaching coral reefs
- 4 nursery
- 5 Plastic pollution
- 6 Matter
- 7 Solid
- 8 Solid
- 9 Gaseous substance

Q7:

- 1 Because they provide living organisms with everything they need, to survive.
- 2 Because he built roads and buildings, threw wastes into water, and overfished fish.

مقدم مجانا من قناة مستر ساينس على اليوتيوب مع الشرح الكامل لكل العنهج

- 3- because the particles of ice are very close to each other and has a strong attraction force
- 4- because the particles of perfume are very far from each other and has a very weak attraction force
- 5- because it has a strong attraction force between its particles

Q8:

- 1 Damage to the marine environment and all living organisms living in it and cuases destruction of marine food web
- 2 Negatively affect coral population, fish population and human population communities that depend on them for food.
- 3 the ecosystem will destroy
- 4- the smell of perfume will spread all over the room as it is a gaseous state
- 5- the water take the shape of new container
- 6-the shape and volume of the cube still constant

Q9:

- 1 frogs increase
- 2 Fox
- 3 Herbs
- 4 Herbs

(10)

- 1 X
- 2 primary consumer secondary consumer
- (11) Fig. C

(12)

- 1 Gaseous
- 3 indefinite (variable)
- 4 indefinite (variable)
- 6 Very large 7 Very weak 8 Random very fast 9- Solid

Primary 5

Question 1

	Choose th	e correct ans	wer:		
	od web, you have to their	-	nimal	s in an ecosy	stem
a. water	b. light	c. gases	d. f	ood	
•	n which we can grow up is loca			III pieces of	coral
a. seas.	b. air.	c. dese	rts.	d. forests) a
communi	s" project that i ties, means that s by				•
a. 0%	b. 10%	c. 9	0%_	d. 100%	
4. To reduce p	ollution, we hav	ve to replace	whit	e plastic for	(S
a. wooden forks		b. black plastic forks.			
c. yellow plastic forks		d. green plastic forks.			
	which the scier I they grow up i				s of
a. food ch	ain. b. food web	. c. grassland	d. d	. nursery.	
	primary consul	mers in an ec	osys	tem, the	
a. increase.	b. decrease.	c. die.		d. not be af	ected.

11111					
7. R	tabbits eat all the	following types	of food, excep	ot	
	a. grasses.	b. carrots	c. seeds.	d. insects.	
8. F	ood web shows	s interactions	between		
	a. few nonlivin	g things b.	many nonlivin	g things.	
	c. many living	organisms. d.	few living orga	anisms.	
9. T	he nutrients that to the ecosyste			tion and returned	
á	a. consumers.	b. producers.	c. predators.	d. decomposers.	
10.	In the decompo	sition proces	s, the role of	comes before the	
a. s	scavengers — dec	composers.	b. decomp	osers — scavengers.	
c. c	onsumers — prod	ducers	d. predators	s — producers.	
11.	A snake is a prepret	70. 2. 70.	while snake is	considered as a	
	a. rabbit.	b. frog.	c. eagle.	d. deer.	
12.	12. An example of a gas is				
	a. chocolate.	b. oxygen.	c. pencil.	d. boiling water.	
13.	13. Particles of matter are very close to each other and they have less energy.				
a. s	olids	b. liquids	c. gases	d. a and b	
14.	Liquids have	definite	, but their	are not definite.	
	a. volume-shape	Э	b. color-volur	ne	
	c. shape-volume	e	d. color-shap	е	

3 |Science with Dr. Dalia Nagib

تابعونا على الفيس بوك و اليوتيوب و التليجرام

, , , , , , , , , , , , , , , , , , ,	
15. Bothand	. have definite shape and volume.
a. wood-oxygen	b. milk-iron
c. wood-iron	d. milk-oxygen
	cted by water pollution, <u>except</u> c. the animals d. human
17.Bothand	have the same state of matter.
a. wood-water b. plastic-c	oil c. wood-milk d. wood-plastic
18. To measure the length of	of a table, we can use a
a. thermometer. b. cylinder.	c. balance scale. d. measuring tape.
19. The Sun provides the Ea	rth with
a. light only. b. warm only. c. lig	ght and warm d. light and sound.
20. Gases havesh	ape andvolume.
a. definite-definite	b. no definite-no definite
c. definite-no definite	d. no definite-definite
21. Seabirds build their nests	3
a. on the water surface.	b. on the top of mountain cliffs.
c. deep down into the sea.	d. deep down into the river.
22.Fire in forest produces	
a. smoke only. b. ash only.	
c. smoke and ash.	d oxygen and ash.
23. All the following are to	p predators, <u>except</u>
a. hawks. b. tigers.	c. butterflyfish. d. lions.
4 Science with Dr. Dalia Nagib	تابعونا على الفيس بوك و اليوتيوب و التليجرام

a. rising waterb. ingesting mide.c. Both of risin	temperature only croplastics only. g temperature ar	ly affected by or and ingesting micro nor ingesting mic	oplastics.
except a. its particles b. its particles c. its particles	 move faster than move slower thar can't spread to fi		r they put in.
26. Decomposi	tion process o	ccurs to	
a. dead animals	and living plants.	b. living anin	nals and dead plants.
c. dead animals	and plants	d. living aniı	mals and plants.
	is a gentle rain	in a desert ecc	system, this
a. harmed.	b. improved.	c. destroyed.	d. collapsed.
28. If the climate species	e change is sui	table, the popu	
c. will increase.)	d. will decr	ease.
29. As a result	of coral reefs	bleaching, they	will be
a. increased.	b. enlarged. c.	survived. d. die	d
30. When cor		the seawat	er, they may
a. evaporat	e b. filter	c. cool	d. warm

31. Coral reefs are considered	as resources of
a. food only.	o. shelter only.
c. food and shelter.	I. food and pollution.
32. In a food chain, the energy	transfers
a. from a consumer to a producer.	b. from a predator to a producer.
c. from a predator to a prey.	d. from a prey to a predator.
33. Plastic waste materials caus environment, except	
a. breakdown in food webs.	b. pollution of water.
c. increasing of population.	d. decreasing of population.
34 are living organism by pollution of marine ecosy	
a. Whales and lions	b. Sharks and tigers
c. Elephants and deers	d. Algae and fish
35. Coral reefs are	
a. living organisms b. bacte	ria c. ecosystem d. fungi
36. The shape ofis fixed	as it is a matter.
	d c. air-gas d. gold-solid
37. Algae in coral reefs provid a. primary consumers	e food for directly. b. secondary consumers
c. producers	d. top predators

Question 2

Choose from (A) what suits it in (B):

1

(A)	(B)
1. Coral reefs	a. they are marine top predators.
2. Triggerfish	b. they are producers in the marine ecosystem.
3. Algae	c. they are prey for sharks.
	d. they are food resources for parrotfish.

2.

(A)	(B)
1. Carbon dioxide	a) is not a matter.
2. Sand	b) is a liquid matter.
3. Gasoline	c) is a gas matter.d) is a solid matter.

3.

	(A)	(B)	
1.	Milk	a)its particles are packed tightly.	
2.	Air	b) its particles have medium energy.	
3.	Wood	c) its particles move very freely.	
١.		d) its particles don't move at all.	

Cross the odd word:

- Oil Milk Water Wood.
- 2. Plastic Vinegar Iron Aluminum.
- Coal Carbon Dioxide Oxygen Air Question 4

Put $(\sqrt{})$ or (X):

- 1. Coral reefs eat butterflyfish to get energy.
- 2. Ice is considered the solid state of matter.
- Nutrients that present in living organisms bodies returned to the ecosystem after death.
- 4. Light and sound are forms of matter.
- It is difficult to make a food web if we don't know the type of food that each consumer eats.
- 6. Liquid particles move freely more than solid particles.
- Liquids don't take the shape of the container that they are placed in.
- Gases keep their shape and volume whatever the container changes.

- 9. Some particles of matter can be examined by regular microscopes.
- 10.Zooplankton can make their own food by photosynthesis process.
- 11. Particles of all matter are in a continuous motion.
- 12. Recycling of waste materials reduces pollution and the size of landfills.
- 13. Top predators are decomposers that present at the top of food chains.
- 14. At the beginning of decomposition process, decomposers break dead organisms down into smaller pieces.
- 15. Matter never changes from one form to another
- 16. Coral reefs depend on butterflyfish for food and shelter.
- 17. It is better to recycle the waste materials than throwing them in rivers and seas
- 18. In an ecosystem that contains rabbits, mice, eagles and snakes only, if snakes disappear completely, so eagles will disappear completely.

- 19. Ecosystem can be affected by climate changes, pollution and human activities
- 20. Two equal amounts of sugar and salt cannot take up the same space at the same time.
- 21. Particles of water can move more freely than the particles of water vapor.
- 22. All objects can be seen with the naked eye
- 23. Volume is the space that is taken up by a matter.
- 24. If coral reefs are destroyed, many marine food chains will be destroyed.
- 25.It is better to keep natural resources healthy than applying restoration projects.
- 26. Removing plants negatively affects consumers in an ecosystem.
- All forms of matter are colored.
- 28. Primary consumers and predators in seas and oceans are negatively affected by rising water temperature
- 29. Forest fire negatively affects the marine organisms.

- 30. Forest fire produces smoke only that covers the grasses
- 31. When the temperature of seawater decreases, coral reefs receive more algae
- 32. Coral reefs filter the seawater to get their needed food.
- 33. UV rays coming from the Sun, break down plastic wastes into microplastics.
- 34. Coral bleaching occurs as a result of throwing plastic in seawater
- 35. Both of bread mold and mushroom are two types of bacteria.

Write the scientific term:

- It is a process through which humans can make new products from waste materials.
- 2. They are organisms that break down the remains of dead plant
- 3. Flying living organisms that build their nests on the top of mountain cliffs and dive deeply into the sea to eat
- 4. They are consumers that exist at the top of food chain
- 5. They are organisms that feed on dead organisms bodies and break them down into smaller pieces.
- 6. It is the harms that happen to air, water and soil due to human activities.

- It is an area in the sea, where scientists take care of small pieces of coral until they grow up.
- 8. Small pieces of plastics in the size of rice grains and they cause harms to marine organisms.
- It transfers between animals in a food web, to help them do their activities and survive
- 10. A state of matter that has a fixed shape
- 11. It is the number of organisms of one type of living in an area
- 12. Anything that has a mass and a volume.
- 13. It is a condition in which coral reefs turn completely into white.
- 14.state of matter that its particles move faster than solids and have a definite volume.
- 15. The state of water after its freezing.
- 16. A device used to examine objects that are too small to be seen with the naked eye
- 17.It is a process of returning a habitat back to its natural state before harm was done
- 18. property of matter by which we can distinguish between hot and cold
- 19. the tool used to measure the length of a wall
- 20. The state of matter that has a lot of spaces between its particles.

Complete the following sentences:

We cannot make a food web, if we don't know the types of that the animals eat.
2) Heavy rain causeswhich destroys desert ecosystems.
3) All matter are made up of tiny
The human activity that doesn't pollute water but decreases the number of marine organisms is known as
5) Iron and gold are examples ofstate of matter.
6) The state of an ice cube is, while the state of the air we breathe is
7) According to temperature, matter can be classified intoandobjects
8) The particles of matter have a lot of energy.
9) decomposition process done by two types of living organisms, which are organisms and organisms.
10) The interconnected food chains are known as
11) Snails, earthworms and slugs are considered as, while vultures, crabs and cockroaches are considered as
12) It is better towaste materials than throwing them in an ecosystem.
13) An eagle can eat rabbits and mice, which are considered as

- 14) Particles of matter can slide over each other so they take the.....of their containers. 15) All energy in all living organisms return back to the environment by the help of..... organisms. 16) Particles of liquid matter can move more faster than......... matter and more slower than matter 17) Particles of...... matter are packed closely together. 18) The length of a pen can be measured by using a 19) Water is a matter in state, while water vapor is a matter in state. Question 7 Study the following figure then complete the sentences below: Grasshopper Study the opposite figure, then choose the correct answer If the number of snakes increases suddenly, a. the number of frogs increases and the number of hawks decreases.
 - increases.

 c. the number of hawks decreases and the amount of grass increases.
 - **d.** the number of grasshopper increases and the number of hawks decreases.

b. the number of frogs decreases and the number of grasshopper

b.





Study the following two figures, then put (\checkmark) or (x)

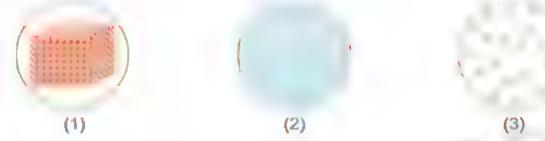
- 1. Rabbits can grow and reproduce in healthy natural resources that present in figure (B).
- 2. Figure (A) includes healthy resources of food, water and shelter for seabirds.
- 3. Habitat restoration projects can be applied on figure (B) only, where figure (A) contains healthy natural resources.
- 4. We can use figure (B) as a nursery for corals until they grow up. ()
- c. Study the opposite figure, then choose the correct answer

The figure show...



- a) energy transfers from mushrooms to dead plant.
- b) energy transfers from dead plant to mushrooms.
- c) oxygen gas transfers from air to dead plant for breathing process.
- d) carbon dioxide gas transfers from air to dead plant for photosynthesis process

d. The following figures represent particles of three states of matter, then put (\checkmark) or (x)



- 1. Figure (1) represents solid matter.
- 2. Figure (2) represents liquid matter.
- 3. By increasing the spaces between the particles of figure (2), this matter may change into solid state.
- 4. Particles of figure (1) have more energy than particles of figure (3).

e. Study the following food chain in an ecosystem, then complete the table below:



Situations	Results
1. The number of rabbits increases	the amount of decreases, while the number of increases
2. The amount of grassesand the number of foxes	the number of rabbits increases.
3. Alldisappear or their role change in this food chain.	all foxes are move away to another ecosystem to search for food.
4. The ecosystem is affected by severe drought conditions.	all die, because there is no water to make their own food.

f. the opposite figures that represent

the three states of matter, complete the following sentences:

- 1. Matter in figure takes the shape of its container but its volume doesn't change.
- 2. Particles of figure move faster than Ethat of figure and figure
- 3. Particles of figure are not held together.



Matter (C)

g. What is happening on land affects what is happening in the marine environment" According to the previous fact,

study the following figure then

Complete the sentences below

1. The living organism that can make photosynthesis process is

2. Energy can flow from marine environment to land, when the hawk eats

3. If many sharks are present in this ecosystem, will moved to another ecosystem to search for food.





Give reasons for:

- Both of rising water temperature and ingesting microplastics are harmful for coral reefs.
- 2. Coral reefs are important for human communities
- 3. Salt is a matter.
- 4. In case of forest fire, animals suffer from difficulty breathing.
- 5. Wood has definite shape and volume.
- 6. Rubber differs from iron. (according to their hardness).
- 7. Sugar is a solid matter.
- 8. Particles of gases can spread out quickly to fill up any container they put in.

Question 9

What happen if:

- We try to examine the particles of any substance with our naked eyes.
- 2. Water changes into ice.
- Water is heated in the kettle for few minutes. (according to the state of water after heating).
- 4. The climate change is unsuitable for a population of one type of species.
- 5. The seawater becomes warm.

Answers

Question 1

Choose:

1)	d	2) a	3) d	4) a	5) d
6)	а	7) d	8) c	9) b	10) a
11)	С	12) b	13) a	14) a	15) c
16)	b	17) d	18) d	19) c	20) b
21)	b	22) c	23) c	24) c	25) d
26)	С	27) b	28) c	29) d	30) b
31)	С	32) d	33) c	34) d	35) c
36)	d	37) a		M.	•

Question 2

Choose from (A) what suits it in (B):

- 1. d 2.c
 - 3. b
- 2. 1.c
- 2. d 3. b
- 3. a 3. 1.b 2. c

Question 3

Cross the odd word:

1. Wood

2. Vinegar

3. Coal

Question 4

Put (√) or (X)

- 1. X
- 7. X
- 13. X
- 19. ✓
- 25. ✓
- 31. ✓

- 2. ✓
- 8. X
- 14. X

- 3. ✓
- 9.
- 15. X
- 20. ✓
- 26. ✓
- 32. ✓

- 10. X
- 16. X
- 21. X
- 27. X
- 33. ✓

- 4. X
- 11. ✓
- 22. X 23. ✓
- 28. ✓
- 34. X

- 5. ✓ 6. <
- 12. ✓
- 17. ✓ 18. ✓
- 24. ✓
- 29. X

30. X

35. X

19 | Science with Dr. Dalia Nagib

Write the scientific term:

- 1. Recycle
- 2. Decomposers
- 3. Seabirds
- **4.** Top predators
- 5. Scavengers
- 6. Pollution
- 7. Nursery

- 8. Microplastics
- 9. Energy
- 10. Solid state
- 11. Population
- 12. Matter
- 13. Coral bleaching
- 14. Liquid state

- 15. Solid state
- 16. Microscope
- 17. Habitat
 - restoration
- 18. Temperature
- 19. Measuring tape
- 20. Gas state

Question 6

Complete the following sentences:

- 1. Food
- 2. Flooding
- 3. Particles
- 4. Overfishing
- 5. Solid
- 6. Solid / gas
- 7. Hot / cold
- 8. Gas
- 9. Scavengers /decomposers
- 10. Food web

- 11. Decomposers/scavengers
- 12. Recycle
- 13. Food chain
- 14. Liquid / shape
- 15. Decomposers
- 16. Solid /gas
- 17. Solids
- 18. Ruler
- 19. Liquid / gas

Question 7

Study the following figure then complete the sentences below:

- a. b
- b. 1. X
- 2. X
- 3.✓
- 4. X

C. b

- d. 1.✓ 2. ✓ 3. X 4. X
- e. 1.grasses / foxes
 - 2.increasess / decreases
 - 3.rabbits
 - 4.grasses
- f. 1. B
 - 2. C / A/ B
 - 3. C
- g. 1. Algae
 - 2.butterflyfish
 - 3. hawk

Give reasons for:

- Because rising of water temperature cause coral bleaching, and microplastics are toxic and sharp.
- Because humans feed on fish that depend on algae in coral reefs for food.
- 3. Because it has mass and volume
- Because fire forest produce smoke that causes difficulty in breathing of animals
- 5. Because it is a solid matter
- 6. Because rubber is a soft matter, while iron is a hard matter
- 7. Because it has definite shape and volume
- 8. Because they are not held together

What happen if:

- 1. Particles cannot be seen
- 2. It will have a definite shape
- 3. It becomes gas (it changes from liquid state to gas state)
- 4. The population of this species will decrease.
- 5. The microorganisms will move away to a cooler water and also fish that feed on microorganisms.